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DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR
RESIGNED APRIL 18, 1921

W. M. STEUART, DIRECTOR
APPOINTED APRIL 14, 1921

FOURTEENTH CENSUS OF THE UNITED STATES

STATE COMPENDIUM
ARIZONA

STATISTICS OF POPULATION, OCCUPATIONS, AGRICULTURE,
IRRIGATION, MANUFACTURES, AND MINES AND QUARRIES
FOR THE STATE, COUNTIES, AND CITIES



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DEPARTMENT OF COMMERCE.

HERBERT HOOVER, SECRETARY OF COMMERCE.

BUREAU OF THE CENSUS.

Chief functions.

The taking of the decennial census covering population, agriculture, manufactures, mines and quarries, and forest products.

Decennial report on wealth, public debt, and taxation, including principal financial statistics on Federal, state, county, city, and township governments.

Annual financial statistics of state and municipal governments—Sources of revenue, objects of payments, debt and tax levies.

Decennial statistics relating to inmates of institutions, including paupers, insane, prisoners, and juvenile delinquents.

A census of agriculture in each middecennial year, a biennial census of manufactures, a quinquennial census of electrical public utilities, statistics of marriage and divorce.

Annual statistics of births, deaths, causes of death, etc., in the registration area of the United States.

Quarterly statistics of leaf tobacco stocks and of production, stocks, and consumption of fats and oils.

Monthly or semimonthly statistics of cotton ginning; cotton stocks and consumption; the production, stocks, and consumption of hides and leather; the production of shoes; and statistics of active textile machinery and of movements in an increasing number of other industries.

The compilation and publication, in the "Survey of Current Business," of monthly commercial and industrial statistics.

BUREAU OF FOREIGN AND DOMESTIC COMMERCE.

Chief functions.

The compilation of timely information concerning world market conditions and openings for American products in foreign countries secured through commercial attachés and trade commissioners of the Department of Commerce and the foreign service of the Department of State. The distribution of such information to American business through weekly "Commerce reports," special bulletins, confidential circulars, the news and trade press, correspondence, and personal contact.

The maintenance of commodity, technical, and geographical divisions to afford special service to American export industries.

The compilation and distribution of names of possible buyers and agents for American products in all parts of the world and the publication of weekly lists of specific sales opportunities abroad.

The maintenance of district and cooperative offices in many cities in the United States to expedite delivery of market information to business men and to keep the department advised as to the urgent requirements of American trades and industries.

The publication of official statistics on imports and exports.

The study of the processes of domestic trade and commerce, with a view to their improvement and the dissemination of information obtained for the benefit of the public, as well as of those directly concerned.

BUREAU OF STANDARDS.

Chief functions.

Custody of standards of measurement, quality, performance, or practice adopted or recognized by the Government. Development and construction of such standards when necessary. Testing and calibration of apparatus and comparison of standards used by scientific or other institutions with those in the custody of the bureau.

Determination of physical constants and properties of materials. The testing of materials and the establishment of standards and processes in cooperation with commercial firms or organizations.

Researches covering structural, engineering, and miscellaneous materials, radio, radium, mechanical appliances, sugar technology, leather, paper, rubber, and textiles, clay products, glass, and refractories, metals and metallurgy, and similar groups of subjects.

The collection and dissemination of information showing approved methods in building, planning, and construction, including building materials and codes and such other matters as may encourage, improve, and cheapen construction and housing.

Studies on simplified commercial practices and the establishment of such practices through cooperative business organizations.

The Bureau publishes six series of scientific and technical publications, reporting the results of its researches and giving technical data fundamental to industry.

The Director of the Bureau has supervision of the preparation of technical specifications through the Federal Specifications Board.

BUREAU OF FISHERIES.

Chief functions.

The propagation of useful food fishes, including lobsters, oysters, and other shellfish, and their distribution to suitable waters.

Investigations of fish culture, fish diseases, and for the conservation of fishery resources and the development of commercial fisheries.

The study of the methods of the fisheries and fishery industries and the utilization of fishery products.

The collection of statistics of fisheries.

The administration of the Alaska salmon fisheries and the fur-seal herd on the Pribilof Islands.

The administration of the law for the protection of sponges off the coast of Florida.

BUREAU OF LIGHTHOUSES.

Chief functions.

The establishment and maintenance of lighthouses, lightships, buoys, and other aids to navigation on the sea and the lake coasts and on the rivers of the United States, including Alaska, Hawaiian Islands, and Porto Rico.

The publication of Light Lists, Buoy Lists, and Notices to Mariners, including information regarding all aids to navigation maintained by the Lighthouse Service.

COAST AND GEODETIC SURVEY.

Chief functions.

The survey of the coasts of the United States and the publication of charts needed for the navigation of the adjacent waters, including Alaska, the Philippine Islands, Hawaii, Porto Rico, the Virgin Islands, and the Canal Zone.

A comprehensive geodetic system, extending into the interior, connects and coordinates the surveys of the coasts, and is designed to furnish accurately determined points and elevations in all parts of the country. These are available as a basis for Federal, state, and municipal surveys, and engineering projects of every kind. The magnetic declination has been determined at a large number of stations throughout the country and the results are available for the use of surveyors and engineers.

The technical operations include base measure, triangulation, traverse, precise leveling, the determination of latitude and azimuth, the determination of difference of longitude by telegraph or radio, magnetic observations and researches, the preparation of magnetic maps, the determination of the force of gravity, topography, hydrography, deep-sea soundings, water temperatures, tidal and current observations.

The results are published in the form of charts on various scales, annual reports, coast pilots, tide tables (published annually in advance), current tables, digests of geodetic publications, and special publications.

BUREAU OF NAVIGATION.

Chief functions.

General superintendence of commercial marine and merchant seamen.

Supervision of registering, enrolling, licensing, numbering, etc., of vessels under the United States flag and the annual publication of a list of such vessels.

The enforcement of the navigation and steamboat inspection laws and the laws governing radio communication, as well as duties connected with fees, fines, tonnage taxes, refunds, etc., originating under such laws.

STEAMBOAT INSPECTION SERVICE.

Chief functions.

The inspection of vessels, the licensing of the officers of vessels, and the administration of laws relating to such vessels and their officers.

The certification of able seamen who form the crews of merchant vessels.

The inspection of vessels, including the types of boilers; the testing of all materials subject to tensile strain in marine boilers; the inspection of hulls and of life-saving equipment.

BUREAU OF THE CENSUS
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FOURTEENTH CENSUS: 1920.

SUMMARY FOR THE UNITED STATES, BY GEOGRAPHIC DIVISIONS AND STATES,

DIVISION AND STATE.	POPULATION, JAN. 1, 1920.													
	POPULATION, BY SEX.			NATIVE WHITE POPULATION.		FOREIGN-BORN WHITE POPULATION.		NEGRO POPULATION.		POPULATION 7 TO 20 YEARS OF AGE.		POPULATION 10 YEARS OF AGE AND OVER.		
	Total. ¹	Male.	Female.	Native parentage.	Foreign or mixed parentage.	Number.	Per cent of total.	Number.	Per cent of total.	Total.	Attending school.	Total.	Number.	Percent.
1 United States..	105,710,620	53,900,431	51,810,189	58,421,057	22,686,204	13,712,754	13.0	10,463,131	9.9	28,564,716	19,451,851	82,730,815	4,931,905	6.0
2 GEOGRAPHIC DIVS.: New England.....	7,400,900	3,672,501	3,728,318	2,803,149	2,642,276	1,870,654	25.3	70,061	1.1	1,768,200	1,223,623	5,945,989	239,700	4.9
3 Middle Atlantic.....	22,261,144	11,206,445	11,054,699	9,631,012	7,088,253	4,912,575	22.1	600,183	2.7	5,527,757	3,746,560	17,686,354	885,382	4.9
4 W. North Central.....	21,475,543	11,035,041	10,440,502	11,793,370	5,925,213	3,223,279	16.5	1,544,554	2.4	5,350,637	3,728,706	17,130,786	495,470	2.9
5 E. North Central.....	12,544,249	6,459,067	6,085,182	7,475,548	3,377,878	1,371,961	10.9	278,521	2.2	3,393,143	2,420,620	9,589,740	193,221	2.0
6 South Atlantic.....	8,893,307	4,735,843	4,421,617	6,092,782	553,004	315,920	2.3	4,325,120	30.9	4,323,620	2,818,400	10,513,447	1,212,942	11.5
7 E. South Central.....	10,242,224	5,205,829	4,976,395	6,959,785	699,609	459,333	4.5	2,523,523	28.4	2,818,595	1,885,659	6,677,229	845,459	12.7
8 W. South Central.....	3,336,101	1,789,299	1,546,802	2,002,503	757,166	453,225	13.6	30,801	0.9	3,259,000	2,097,596	7,739,536	773,637	10.0
9 Mountain.....	5,566,871	2,964,626	2,602,245	2,837,387	1,432,379	1,033,903	18.6	47,790	0.9	896,403	656,638	2,564,463	132,659	5.2
10 Pacific.....										1,227,268	900,734	4,011,771	123,435	2.7
11 NEW ENGLAND: Maine.....	768,014	388,752	379,262	495,780	162,566	107,349	14.0	1,310	0.2	188,822	134,299	621,233	20,240	3.3
12 New Hampshire.....	443,083	222,112	220,971	225,512	125,586	91,233	20.6	621	0.1	104,581	73,003	361,930	15,788	4.4
13 Vermont.....	352,423	178,854	173,574	228,325	78,906	44,526	12.6	572	0.2	87,302	62,544	284,472	8,488	3.0
14 Massachusetts.....	3,852,356	1,890,014	1,962,342	1,230,773	1,495,217	1,077,534	28.0	45,466	1.2	907,212	633,124	3,106,769	146,607	4.7
15 Rhode Island.....	604,397	297,524	306,373	173,553	246,928	173,499	28.7	10,036	1.7	149,774	95,490	483,788	31,312	6.5
16 Connecticut.....	1,350,631	695,355	685,298	449,206	533,013	376,513	27.3	21,046	1.5	330,599	225,094	1,087,797	67,265	6.2
17 MIDDLE ATLANTIC: New York.....	10,355,227	5,187,350	5,197,877	3,668,266	3,717,649	2,786,112	26.8	198,483	1.0	2,461,306	1,656,905	8,402,786	425,022	5.1
18 New Jersey.....	3,155,900	1,590,075	1,565,825	1,212,675	1,085,799	738,613	23.4	117,132	3.7	786,040	525,979	2,494,246	127,661	5.1
19 Pennsylvania.....	8,720,017	4,429,020	4,290,097	4,750,071	2,294,805	1,387,850	15.0	284,568	3.3	2,280,411	1,563,676	6,769,322	312,690	4.6
20 E. NORTH CENTRAL: Ohio.....	5,759,894	2,955,980	2,803,414	3,660,122	1,224,074	678,697	11.8	186,187	3.2	1,386,799	989,417	4,024,486	131,006	2.8
21 Indiana.....	2,930,390	1,489,074	1,441,316	2,329,544	368,659	150,868	5.1	80,810	2.8	745,281	515,237	2,356,214	52,034	2.2
22 Illinois.....	6,485,280	3,304,883	3,180,447	3,006,416	2,025,819	1,206,951	18.6	182,274	2.8	1,619,847	1,08,218	5,184,943	173,987	3.4
23 Michigan.....	3,668,412	1,928,436	1,730,076	1,670,447	1,204,545	726,635	19.8	60,082	1.6	893,744	626,165	2,895,606	88,046	3.0
24 Wisconsin.....	2,032,067	1,356,718	1,275,349	1,054,694	1,102,118	400,128	17.5	5,201	0.2	704,968	450,671	2,069,587	50,397	2.4
25 W. NORTH CENTRAL: Minnesota.....	2,387,125	1,245,537	1,141,588	827,027	1,055,145	486,164	20.4	8,800	0.4	643,287	451,096	1,877,132	34,487	1.8
26 Iowa.....	2,404,021	1,229,392	1,174,629	1,528,553	620,981	225,647	9.4	19,005	0.8	627,248	454,078	1,913,155	20,680	1.1
27 Missouri.....	3,404,055	1,723,319	1,680,736	2,530,936	502,082	186,026	5.5	178,241	5.2	901,694	624,395	2,737,771	83,403	3.0
28 North Dakota.....	646,872	341,673	305,199	207,966	300,485	131,503	20.3	467	0.1	198,020	146,289	470,210	9,937	2.1
29 South Dakota.....	636,547	337,120	299,427	308,598	228,153	82,391	12.9	832	0.1	181,271	131,943	482,195	8,100	1.7
30 Nebraska.....	1,296,372	672,805	623,567	757,064	372,503	149,652	11.5	13,242	1.0	358,143	256,901	1,012,552	13,784	1.4
31 Kansas.....	1,760,257	909,221	860,086	1,308,304	239,524	110,578	6.2	57,925	3.3	433,480	356,167	1,390,725	22,821	1.6
32 SOUTH ATLANTIC: Delaware.....	223,003	113,755	109,248	139,876	32,929	19,810	8.9	30,335	13.6	54,739	37,759	178,930	10,508	5.9
33 Maryland.....	1,449,661	729,455	720,206	893,088	209,472	102,177	7.0	244,479	16.9	381,106	246,056	1,158,933	64,434	5.6
34 Dist. Columbia.....	437,571	203,543	234,028	239,488	58,582	28,543	6.5	109,966	25.1	89,931	58,005	377,295	10,500	2.8
35 Virginia.....	2,309,187	1,168,492	1,140,695	1,534,494	52,630	30,785	1.3	690,017	29.9	709,900	460,037	1,748,868	105,159	11.2
36 West Virginia.....	1,493,701	763,100	700,601	1,232,357	82,472	61,906	4.2	86,345	5.9	437,703	297,044	1,083,395	60,413	6.4
37 North Carolina.....	2,559,123	1,279,062	1,230,061	1,765,203	11,477	7,009	0.3	763,407	29.8	839,574	576,239	1,844,673	241,003	13.1
38 South Carolina.....	1,683,724	838,293	845,431	799,418	12,719	6,401	0.4	864,719	51.4	576,564	393,077	1,219,316	220,667	18.1
39 Georgia.....	2,805,832	1,444,823	1,451,009	1,642,697	30,231	16,180	0.6	1,206,355	41.7	953,304	570,389	2,150,230	328,838	15.3
40 Florida.....	968,470	495,320	473,150	532,205	62,850	43,008	4.4	329,487	34.0	280,719	179,803	751,787	71,811	9.6
41 E. SOUTH CENTRAL: Kentucky.....	2,416,630	1,227,494	1,180,136	2,039,134	110,646	30,780	1.3	235,938	9.8	717,667	480,526	1,837,434	155,014	8.4
42 Tennessee.....	2,337,885	1,173,967	1,163,918	1,832,757	37,753	15,478	9.0	451,768	19.3	724,688	488,543	1,770,762	132,029	10.3
43 Alabama.....	2,348,174	1,173,105	1,175,069	1,394,129	35,241	17,662	0.8	900,652	38.4	774,048	499,888	1,730,421	278,082	16.1
44 Mississippi.....	1,790,618	897,124	893,494	826,762	19,181	8,010	0.4	935,184	52.2	602,192	389,702	1,338,612	229,734	17.2
45 W. SOUTH CENTRAL: Arkansas.....	1,752,204	805,228	850,976	1,226,692	39,090	13,975	0.8	472,220	27.0	569,870	375,115	1,302,905	121,837	9.4
46 Louisiana.....	1,798,509	903,335	895,174	941,724	110,016	44,871	2.5	700,257	38.9	574,202	327,546	1,366,066	209,092	21.9
47 Oklahoma.....	2,028,283	1,058,044	970,239	1,679,497	102,119	39,968	2.0	149,408	7.4	647,939	444,217	1,513,951	56,884	3.8
48 Texas.....	4,063,228	2,009,222	2,254,006	3,112,202	445,384	300,519	7.7	741,694	15.9	1,466,989	950,688	3,556,614	295,844	8.3
49 MOUNTAIN: Montana.....	548,889	209,941	248,948	275,803	164,837	93,620	17.1	1,058	0.3	135,886	102,621	421,443	9,544	2.3
50 Idaho.....	431,860	233,919	197,947	204,252	92,453	38,963	9.0	920	0.2	122,278	95,027	326,051	4,924	1.5
51 Wyoming.....	104,402	110,359	84,043	122,884	42,007	25,255	13.0	1,375	0.7	47,474	34,387	160,993	3,140	2.1
52 Colorado.....	939,689	492,731	448,998	603,404	204,108	110,954	12.4	11,318	1.2	239,926	175,745	747,485	24,208	3.2
53 New Mexico.....	360,350	190,456	169,894	273,317	32,279	29,077	8.1	5,733	1.0	103,738	75,119	267,595	41,637	15.6
54 Arizona.....	334,162	183,602	150,560	151,145	62,205	78,099	23.4	8,005	2.4	89,464	64,387	255,461	39,131	15.3
55 Utah.....	449,396	232,051	217,345	245,781	139,665	56,455	12.6	1,446	0.3	136,030	107,908	331,530	6,264	1.9
56 Nevada.....	77,407	46,240	31,167	36,285	19,612	14,802	19.1	346	0.4	15,601	11,444	63,905	3,802	5.9
57 PACIFIC: Washington.....	1,356,691	734,701	621,920	711,703	358,016	250,055	18.4	6,883	0.5	321,410	238,012	1,101,929	18,526	1.7
58 Oregon.....	783,389	416,334	367,055	497,726	169,269	102,151	13.0	2,144	0.3	187,704	141,613	638,987	9,317	1.5
59 California.....	3,426,861	1,												

STATE COMPENDIUM.

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FOR POPULATION, AGRICULTURE, MANUFACTURES, AND MINES AND QUARRIES.

[Table continued on following page.]

POPULATION, JAN. 1, 1920.								AGRICULTURE.							
POPULATION 21 YEARS OF AGE AND OVER.								LAND IN FARMS, 1920							
All classes.			Native white.	Foreign-born white.			Negro.	Farm population, 1920	Number of farms, 1920	Per cent operated by tenants.	Total (acres).	Average per farm.	Improved (acres).	Per cent improved.	
Total.	Illiterate.			Total.	Naturalized.	Per cent illiterate.									
Number.	Percent.			Total.	Naturalized.	Per cent illiterate.	Total.	Number of farms, 1920							
60,886,520	4,333,111	7.1	42,614,741	12,498,720	6,208,697	13.7	5,522,475	27.4	31,614,260	6,448,343	38.1	955,883,715	148.2	503,073,007	52.6
4,501,477	230,826	6.1	2,829,337	1,705,291	755,527	14.8	52,315	8.5	625,877	156,564	7.4	16,990,642	103.5	6,114,601	36.0
13,451,656	843,582	6.3	8,540,966	4,477,752	2,024,619	16.7	409,441	6.0	4,892,789	427,147	20.7	26,562,901	95.4	26,562,107	65.5
13,025,695	480,238	3.7	9,076,916	2,978,675	1,570,667	11.4	856,341	8.7	4,913,633	1,084,744	28.1	117,735,179	103.5	87,894,835	74.7
7,278,548	180,610	2.5	5,777,875	1,201,704	874,132	6.5	187,865	12.5	5,171,596	1,006,951	34.2	250,075	234.3	171,394,439	66.7
7,212,523	1,000,704	14.0	4,805,500	237,216	131,423	13.5	2,111,952	31.5	6,416,698	1,158,976	46.8	97,775,243	84.4	45,509,886	49.6
4,523,944	700,098	15.5	3,171,417	67,242	38,335	9.3	1,234,039	34.1	5,182,937	1,051,600	49.7	78,397,493	75.0	44,380,132	56.3
5,243,779	611,363	11.7	3,796,823	357,220	114,258	29.1	1,062,244	30.5	5,228,199	996,088	52.9	173,440,127	174.1	64,189,606	37.0
1,888,921	113,384	6.0	1,421,859	394,008	210,864	12.7	23,851	5.8	1,168,367	244,109	15.4	117,337,220	480.7	30,105,868	25.7
3,070,077	116,240	3.2	2,584,988	939,623	482,872	8.8	34,367	5.4	1,014,173	234,164	20.1	50,152,705	239.8	23,921,533	42.6
475,191	18,572	3.9	379,356	94,320	40,479	12.0	876	6.8	197,601	48,227	4.2	5,425,908	112.5	1,977,329	36.4
281,026	15,257	5.4	108,481	82,049	36,021	16.4	388	7.7	76,021	20,523	6.7	2,603,806	126.9	702,902	27.0
217,042	8,152	3.8	178,442	38,232	19,825	12.5	342	8.2	125,263	29,075	11.6	4,235,811	145.7	1,091,505	39.9
2,411,607	142,750	5.9	1,380,441	988,013	441,416	13.5	30,412	8.2	118,554	32,001	7.1	2,494,477	77.9	908,834	36.4
368,637	30,319	8.2	204,916	186,806	78,175	17.5	6,554	12.5	15,136	4,083	15.5	331,600	81.2	132,835	40.1
838,074	65,776	7.8	478,701	344,902	139,011	18.1	13,743	7.5	93,302	22,655	8.5	1,898,980	83.8	701,036	36.9
6,514,681	415,359	6.4	8,382,882	2,528,497	1,153,813	15.2	142,544	3.4	800,747	193,195	10.2	20,632,803	106.8	13,158,781	63.8
1,897,884	124,358	6.6	1,145,500	675,722	305,516	16.3	75,671	7.5	143,703	29,702	23.0	2,282,555	76.8	1,555,607	68.2
5,039,091	303,865	6.0	3,571,608	1,274,033	566,290	20.1	191,226	7.3	948,334	202,250	21.9	17,657,513	87.3	11,847,719	67.1
3,558,481	126,645	3.6	2,807,874	622,623	293,535	13.4	126,940	9.7	1,139,329	256,605	29.5	23,515,888	91.6	18,542,353	78.9
1,779,820	50,147	2.8	1,585,076	140,373	63,567	12.4	53,935	11.7	907,295	205,126	32.0	21,063,332	102.7	16,680,212	79.2
3,914,197	169,127	4.3	2,084,677	1,117,928	639,446	11.7	128,450	7.9	1,098,262	237,181	42.7	31,974,775	134.8	27,294,533	85.4
2,215,430	85,613	3.9	1,504,907	603,160	330,980	10.5	48,407	4.9	848,710	106,447	17.7	19,032,961	96.9	12,925,521	67.9
1,527,661	48,700	3.2	1,084,382	434,591	249,161	8.8	3,000	4.8	920,037	189,295	14.4	22,148,223	117.0	12,452,216	56.2
1,380,834	32,809	2.4	908,810	402,582	319,390	5.6	6,666	3.5	897,181	178,478	24.7	30,221,758	169.3	21,481,710	71.1
1,422,682	19,444	1.4	1,201,080	214,479	153,271	5.0	12,568	9.9	954,790	213,439	41.7	33,474,896	156.8	28,606,951	85.5
2,038,814	77,348	3.8	1,743,313	173,551	104,448	10.0	121,328	14.3	1,211,346	263,004	28.8	34,774,679	132.2	24,832,966	71.4
322,918	9,373	2.0	198,345	121,047	91,187	5.9	336	4.8	394,500	77,690	25.6	36,214,751	466.1	24,503,178	67.8
344,846	7,040	2.2	257,505	78,027	55,104	4.9	520	6.7	362,221	74,637	34.9	34,636,491	464.1	18,190,250	52.5
733,310	12,972	1.8	585,753	140,899	68,733	6.6	9,437	5.7	584,172	124,417	42.9	42,225,475	339.4	23,109,624	54.7
1,024,144	20,970	2.0	884,979	101,200	66,889	10.2	37,010	11.2	737,377	163,286	40.4	45,125,179	274.8	30,600,760	67.4
136,521	10,088	7.4	100,114	18,245	8,027	18.2	18,113	24.6	51,212	10,140	30.3	944,511	93.1	653,052	69.1
802,391	58,877	6.8	626,388	93,624	49,704	14.3	141,901	22.2	270,225	47,908	28.9	4,757,999	99.3	3,186,728	65.9
305,255	10,190	3.3	204,804	26,376	14,712	6.4	73,448	10.7	894	204	41.7	5,608	27.8	4,258	51.1
1,207,074	162,376	13.5	827,272	27,851	14,057	7.5	351,231	29.3	1,064,417	180,242	25.6	18,561,112	99.7	9,400,492	51.0
752,344	61,468	8.2	645,641	55,465	14,141	25.4	51,145	18.9	477,924	87,289	10.2	9,569,790	109.6	5,520,303	57.7
1,210,727	204,492	10.9	856,507	6,488	3,225	7.0	342,756	32.4	1,501,227	269,763	43.5	20,021,736	74.2	8,198,409	40.9
770,091	179,382	23.0	396,855	5,941	3,002	6.5	376,930	38.7	1,074,693	192,693	64.5	12,426,675	64.5	6,184,159	49.8
1,421,606	261,294	18.4	831,173	14,855	8,318	5.6	575,330	35.8	1,685,213	310,732	66.6	12,441,061	81.9	13,055,209	51.3
536,614	58,497	10.9	316,746	38,370	16,109	6.6	181,008	24.8	281,893	54,005	25.3	6,046,691	112.0	2,297,271	38.0
1,280,406	130,235	10.6	1,116,037	29,488	18,493	7.5	143,881	26.4	1,304,862	270,626	33.4	21,612,772	79.9	13,975,746	64.7
1,214,947	153,198	12.6	955,125	14,319	7,708	8.7	245,395	26.9	1,271,708	252,774	41.1	19,510,856	77.2	11,185,302	57.3
1,143,395	228,565	20.0	636,920	16,105	8,503	11.3	441,130	38.8	1,335,885	256,000	57.9	19,576,856	76.4	9,893,407	50.5
876,106	182,135	20.8	414,329	7,330	3,631	13.4	453,663	35.9	1,270,482	272,101	66.1	18,196,979	66.9	9,325,677	51.2
807,292	99,413	11.5	611,737	13,166	7,509	8.3	242,234	26.5	1,147,040	232,604	51.3	17,456,750	75.0	9,210,558	52.8
924,184	229,980	24.9	522,789	41,223	15,196	22.6	350,251	43.8	780,050	135,403	57.1	10,019,822	74.0	5,626,228	56.2
1,021,588	48,076	4.7	884,745	36,108	19,372	13.4	26,331	16.4	1,017,327	191,988	51.0	31,951,034	166.4	18,125,321	56.7
2,430,715	233,894	9.6	1,777,552	266,718	72,121	33.3	384,428	23.4	2,277,773	436,038	53.3	114,020,621	201.5	31,227,503	27.4
820,562	9,071	2.8	226,355	85,709	56,627	6.0	1,262	6.7	225,667	57,677	11.3	35,070,656	608.1	11,007,273	31.4
234,076	4,510	1.9	193,818	36,170	23,894	6.6	699	6.9	200,902	42,108	15.9	8,375,873	198.9	4,511,680	53.9
115,739	2,940	2.5	89,625	23,057	12,008	9.2	1,065	6.1	67,306	15,743	12.5	11,809,351	749.9	2,102,005	17.8
564,529	22,080	3.9	448,781	105,017	62,818	12.8	8,106	7.4	266,073	59,934	23.0	24,462,014	408.1	7,744,757	31.7
182,186	34,952	18.9	149,224	21,933	5,881	23.6	4,809	4.4	161,446	20,844	12.2	24,409,633	817.9	1,717,224	7.0
187,020	80,636	16.3	108,656	55,973	10,708	6.5	6,559	4.8	90,560	9,975	18.1	5,802,126	581.7	712,803	12.3
228,682	5,679	2.5	171,375	52,254	33,192	6.5	1,104	5.0	140,249	25,662	10.9	5,050,410	196.8	1,715,380	34.0

FOURTEENTH CENSUS: 1920.

SUMMARY FOR THE UNITED STATES, BY GEOGRAPHIC DIVISIONS AND STATES,

Table continued from preceding page.]

DIVISION AND STATE.	AGRICULTURE—Continued.									
	VALUE OF FARM PROPERTY: 1920				VALUE OF FARM PRODUCTS: 1919					
	Total.	Land and buildings.	Implements and machinery.	Livestock.	Total (gross value). ¹	Live-stock products ²	Domestic animals sold, etc. ³	Crops.	Miscellaneous products. ⁴	
1 United States	Dollars. 77,924,100,338	Dollars. 66,316,002,602	Dollars. 3,594,772,928	Dollars. 8,013,324,808	Dollars. 21,425,623,614	Dollars. 2,667,072,273	Dollars. 3,511,050,000	Dollars. 14,756,364,894	Dollars. 492,136,447	
GEOGRAPHIC DIVISIONS:										
2 New England	1,173,019,504	917,468,584	92,387,525	103,163,485	505,397,039	132,411,030	55,500,000	275,175,536	42,310,473	
3 Middle Atlantic	3,949,634,183	3,002,137,754	359,152,336	583,304,093	1,511,158,784	412,960,765	170,200,000	614,499,927	63,498,092	
4 East North Central	17,245,302,593	14,937,041,671	786,070,305	1,521,044,117	4,410,240,680	721,357,462	784,200,000	2,818,367,703	86,285,426	
5 West North Central	27,091,434,546	24,469,495,169	1,102,938,264	2,369,001,112	5,581,297,432	550,712,614	1,312,000,000	3,676,902,149	41,052,669	
6 South Atlantic	6,132,917,700	5,201,773,472	283,980,857	647,103,431	2,620,345,406	204,301,963	221,550,000	2,083,808,429	118,685,074	
7 East South Central	4,419,466,237	3,663,693,303	176,064,886	570,707,988	1,795,544,716	159,643,780	250,500,000	1,306,179,989	73,220,938	
8 West South Central	7,622,066,027	6,291,188,072	311,098,790	1,019,779,165	2,739,481,559	181,340,648	352,200,000	2,168,622,649	37,312,262	
9 Mountain	4,083,137,939	3,163,187,783	190,715,673	729,234,483	921,882,633	121,132,969	230,700,000	502,054,399	7,095,265	
10 Pacific	5,307,011,460	4,669,410,734	232,357,792	405,236,634	1,281,276,305	183,145,033	127,600,000	948,854,024	21,676,248	
NEW ENGLAND:										
11 Maine	270,526,733	204,108,971	26,637,660	39,780,102	154,076,198	26,075,210	15,700,000	100,152,324	12,148,653	
12 New Hampshire	118,656,115	80,995,870	9,499,322	10,100,023	51,771,331	14,681,368	7,700,000	23,509,665	5,880,298	
13 Vermont	222,736,020	149,117,159	21,234,130	42,355,331	99,473,142	31,573,340	13,300,000	47,999,600	6,600,202	
14 Massachusetts	300,471,743	247,557,831	19,350,755	33,524,157	109,223,194	33,850,932	10,900,000	53,700,926	10,771,377	
15 Rhode Island	33,636,766	26,337,026	2,408,561	4,840,279	13,682,138	5,387,881	1,300,000	5,340,378	1,673,879	
16 Connecticut	226,991,617	190,270,827	13,248,097	23,472,693	77,171,038	20,862,330	6,600,000	44,472,644	5,236,064	
MIDDLE ATLANTIC:										
17 New York	1,008,483,201	1,425,001,740	169,806,766	313,554,695	748,823,302	225,465,739	71,000,000	417,046,864	30,310,780	
18 New Jersey	311,847,948	250,323,988	25,459,205	36,064,757	135,000,544	31,482,045	8,700,000	87,484,186	7,333,413	
19 Pennsylvania	1,729,353,034	1,320,752,028	163,820,365	238,774,641	632,334,848	150,012,081	90,500,000	409,908,877	25,853,890	
EAST NORTH CENTRAL:										
20 Ohio	3,095,660,336	2,661,435,040	146,575,209	287,655,118	941,720,607	155,587,919	150,400,000	607,037,562	19,704,216	
21 Indiana	3,042,311,247	2,658,643,973	127,403,080	201,264,188	782,161,167	99,350,023	171,100,000	497,229,719	14,421,425	
22 Illinois	6,666,767,235	5,997,993,566	222,619,605	446,154,064	1,208,905,947	142,351,202	274,800,000	864,737,833	17,017,852	
23 Michigan	1,763,334,778	1,436,086,210	122,389,936	204,258,032	600,886,581	111,076,235	75,600,000	404,014,810	16,195,536	
24 Wisconsin	2,677,282,907	2,187,881,973	167,988,009	322,312,115	780,610,288	213,022,023	103,300,000	445,347,868	18,046,307	
WEST NORTH CENTRAL:										
25 Minnesota	3,787,420,118	3,301,168,325	181,087,908	305,163,825	734,485,441	113,236,965	104,000,000	506,020,233	11,228,243	
26 Iowa	8,524,870,950	7,601,772,290	309,172,398	613,920,268	1,447,938,473	130,250,447	420,800,000	890,301,299	6,998,727	
27 Missouri	3,591,068,086	3,082,967,700	138,281,340	389,839,049	952,603,253	105,601,436	559,047,854	17,213,903	303,022	
28 North Dakota	1,765,742,995	1,488,521,495	114,180,865	157,034,035	368,055,889	30,970,932	34,900,000	301,782,935	665,289	
29 South Dakota	2,828,870,212	2,472,883,681	112,408,268	238,508,263	411,111,307	35,739,200	63,700,000	311,006,809	33,395,485	
30 Nebraska	4,201,655,992	3,712,107,760	153,104,448	336,443,784	784,677,206	54,612,075	208,700,000	519,723,771	14,503,813	
31 Kansas	3,302,806,187	2,830,063,818	154,710,977	318,028,292	882,365,803	80,322,550	210,200,000	588,923,248	2,920,665	
SOUTH ATLANTIC:										
32 Delaware	80,137,614	64,755,631	6,781,318	8,600,605	32,182,526	5,778,747	2,400,000	23,058,906	944,873	
33 Maryland	463,838,120	386,596,850	28,070,020	48,071,250	1,019,770	25,522,172	16,800,000	109,858,608	5,907,999	
34 District of Columbia	5,927,987	5,577,309	104,252	246,366	1,019,770	119,263	50,000	307,614	542,899	
35 Virginia	1,196,555,772	1,024,435,025	50,151,466	121,969,281	425,199,212	46,311,494	61,100,000	292,824,260	24,903,458	
36 West Virginia	496,430,617	419,783,400	18,395,058	67,261,153	169,066,518	26,332,970	34,600,000	96,537,459	11,506,087	
37 North Carolina	1,250,166,995	1,076,302,960	64,621,303	119,159,672	614,084,854	35,880,056	41,600,000	503,229,313	33,395,485	
38 South Carolina	953,044,742	813,484,200	45,002,387	61,518,155	483,070,710	20,354,089	18,000,000	437,122,837	14,503,813	
39 Georgia	1,350,685,196	1,138,298,627	63,343,220	155,043,349	638,430,053	30,401,316	39,000,000	540,613,626	22,415,111	
40 Florida	330,301,717	281,449,404	13,551,773	35,300,540	101,204,046	7,621,885	8,000,000	80,256,806	5,325,355	
EAST SOUTH CENTRAL:										
41 Kentucky	1,511,901,077	1,305,158,936	48,354,857	153,387,284	512,459,424	50,928,217	90,800,000	347,338,888	17,392,319	
42 Tennessee	1,251,964,585	1,024,978,894	53,462,556	173,522,135	492,407,214	50,980,694	101,000,000	318,285,307	22,161,213	
43 Alabama	690,849,720	543,657,755	32,386,217	112,824,748	383,178,279	30,429,903	29,100,000	304,349,638	19,302,648	
44 Mississippi	904,751,855	789,890,778	39,881,250	134,973,821	407,498,709	27,327,855	29,600,000	330,207,156	14,304,758	
WEST SOUTH CENTRAL:										
45 Arkansas	924,395,483	753,110,066	43,432,237	127,852,580	424,486,802	30,083,950	30,400,000	340,813,256	14,180,596	
46 Louisiana	589,826,079	474,038,793	32,715,010	83,072,876	237,628,052	13,613,465	12,100,000	206,182,548	5,732,039	
47 Oklahoma	1,680,423,544	1,363,865,294	80,630,547	215,927,703	707,895,000	49,887,518	103,800,000	550,084,742	4,122,740	
48 Texas	4,447,420,321	3,700,173,319	154,320,904	592,926,008	1,369,471,705	87,761,715	196,900,000	1,071,542,103	13,287,887	
MOUNTAIN:										
49 Montana	985,961,308	770,767,529	55,004,212	154,189,567	142,597,141	24,809,029	40,000,000	69,975,185	1,812,027	
50 Idaho	716,137,010	581,611,904	38,417,253	90,208,693	181,709,556	22,225,355	30,500,000	126,495,111	2,489,090	
51 Wyoming	834,410,500	234,748,125	11,777,049	87,584,516	68,153,818	14,004,109	23,700,000	30,270,630	17,079	
52 Colorado	1,076,794,749	866,018,600	49,804,509	160,976,530	280,255,333	26,021,202	70,600,000	181,065,239	1,708,802	
53 New Mexico	325,185,099	221,814,212	9,745,309	93,026,418	75,172,758	8,447,820	25,700,000	40,619,634	405,298	
54 Arizona	233,502,080	172,325,321	8,820,687	52,447,001	59,771,694	6,294,888	10,900,000	42,481,230	7,578	
55 Utah	311,274,728	243,751,758	13,514,787	54,008,183	87,764,314	13,735,823	15,600,000	58,087,087	361,424	
56 Nevada	99,779,668	66,255,214	3,030,927	29,893,525	20,418,019	4,694,049	7,700,000	13,980,303	43,067	
PACIFIC:										
57 Washington	1,057,429,848	920,302,341	54,721,377	82,316,130	301,271,159	44,066,349	23,900,000	227,212,008	6,092,802	
58 Oregon	818,559,751	675,213,284	41,507,125	101,779,342	209,459,206	35,146,671	36,200,000	131,884,639	6,227,956	
59 California	3,431,021,861	3,073,811,109	138,089,290	221,141,402	770,544,880	103,932,013	67,500,000	589,757,377	9,355,490	

¹ The gross value of farm products, obtained by adding the value of crops, live-stock products, etc., contains a considerable amount of duplication, on account of crops fed to live stock. It is roughly analogous to the value of products in manufactures, with its duplication on account of the use of the products of one establishment as materials in another.

² These include dairy products, wool and mohair, eggs and chickens, and honey and wax.

³ Estimated value of domestic animals sold by farmers and animals slaughtered on the farms, whether for sale or for home consumption.

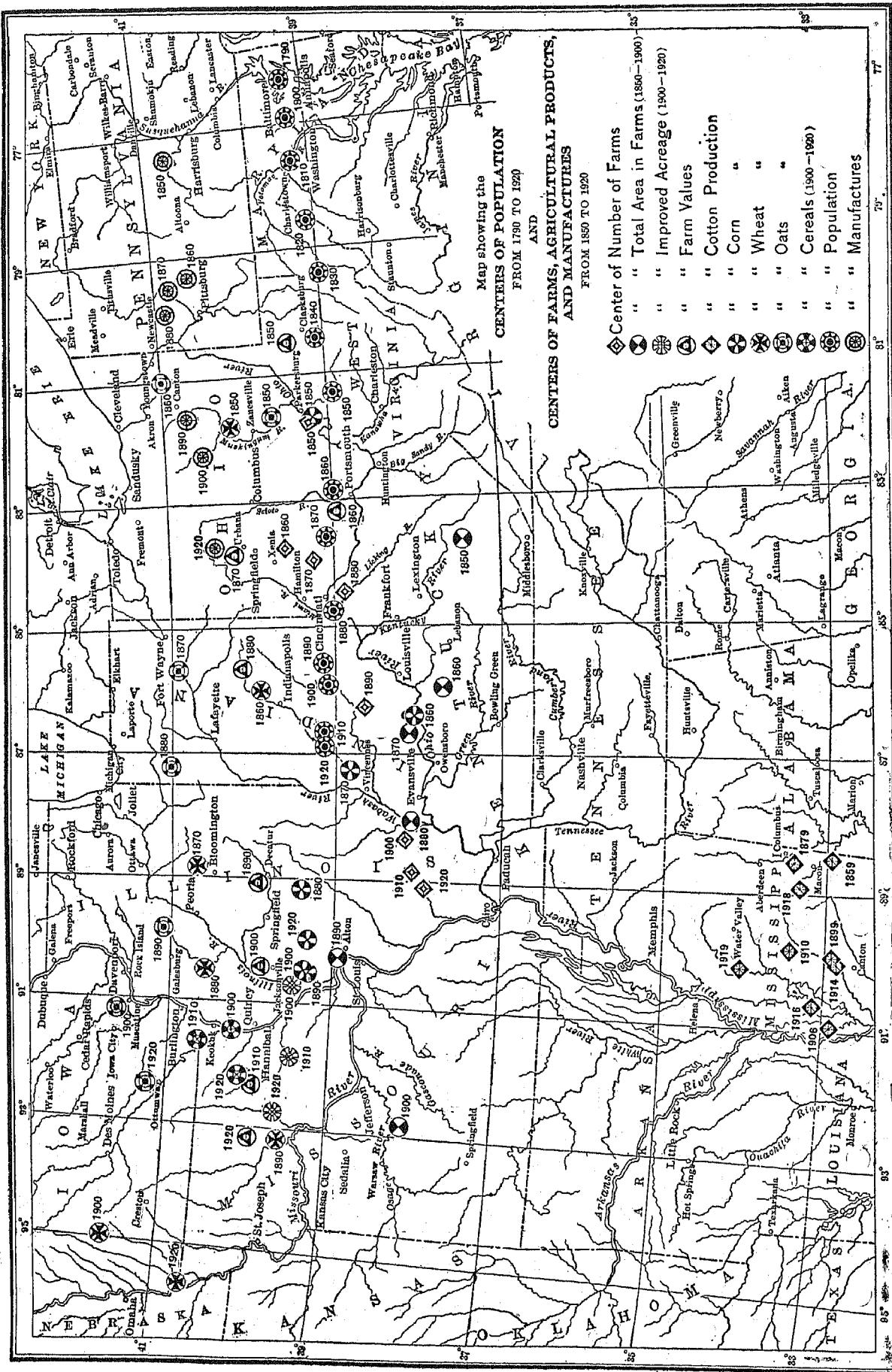
⁴ These include forest products of farms valued (for the United States) at \$304,321,828, nursery products valued at \$20,434,388, and greenhouse products valued at \$77,380,230.

STATE COMPENDIUM.

5

FOR POPULATION, AGRICULTURE, MANUFACTURES, AND MINES AND QUARRIES.

MANUFACTURES.*										MINES AND QUARRIES.*									
Number of establishments.	AVERAGE NUMBER OF WAGE EARNERS.					Wages.	Cost of materials.	VALUE OF PRODUCTS.		Number of establishments.	Number of mines and quarries.	Number of wells.	AVERAGE NUMBER OF WAGE EARNERS. ^b		Wages.	VALUE OF PRODUCTS.			
	Total.	Rank.	Percent distribution.	Male.	Female.			Amount.	Percent distribution.				Total.	Percent distribution.		Amount.	Percent distribution.		
	Expressed in thousands.					Rank.	Percent distribution.	Expressed in thousands.					Total.	Percent distribution.	Expressed in thousands.				
290,105	9,096,372	100.0	7,267,030	1,829,342	Dollars. 10,533,400	Dollars. 37,376,380	Dollars. 62,418,079	100.0	21,280	13,844	257,673	981,560	100.0	Dollars. 1,295,936	Dollars. 3,158,464	100.0	1
25,528	1,351,389	3	14.9	955,597	395,792	1,436,435	3,951,908	7,183,071	3	11.5	302	334	7,213	0.7	8,034	18,724	0.6	2	
88,330	2,872,053	1	31.6	2,179,258	693,305	3,464,931	11,424,096	19,854,773	1	31.8	6,604	3,870	91,511	34.0	458,103	853,801	27.0	3	
61,332	2,396,618	2	20.3	2,030,024	360,594	2,992,931	10,621,687	17,737,480	2	28.4	3,772	2,324	54,413	190,011	19.4	237,638	480,483	15.2	4
29,100	499,635	5	5.5	408,369	91,266	546,172	3,778,125	5,187,065	4	8.3	1,726	1,270	12,091	62,253	6.3	84,268	280,111	8.9	5
29,976	817,212	4	9.0	658,092	159,120	778,027	2,696,265	4,455,152	5	7.1	2,284	1,976	27,363	129,707	13.2	149,276	352,074	11.1	6
14,655	320,226	7	3.6	286,147	43,079	288,711	977,824	1,642,391	8	2.6	1,405	1,475	5,228	90,612	9.2	98,768	181,645	5.8	7
13,900	285,244	8	3.1	261,967	23,277	283,022	1,547,994	2,277,861	7	3.6	2,821	495	56,087	60,936	6.3	88,445	490,727	15.5	8
7,612	109,216	9	1.2	101,858	7,358	141,902	610,239	922,676	9	1.5	1,508	1,598	1,183	81,519	8.3	131,192	321,825	10.2	9
19,507	433,179	6	4.8	388,718	49,461	581,260	1,868,242	3,157,610	6	5.1	858	502	9,197	25,134	2.6	40,207	178,934	5.7	10
2,995	88,651	24	1.0	68,530	20,121	94,225	254,569	456,822	28	0.7	50	51	979	0.1	1,052	1,824	0.1	11	
1,499	83,074	25	0.9	57,007	25,407	79,326	239,623	407,205	29	0.7	30	33	682	0.1	825	1,568	(*)	12	
1,700	33,491	37	0.4	28,613	4,878	34,084	95,178	168,108	33	0.3	93	109	2,936	0.3	3,041	8,555	0.3	13	
11,906	713,836	4	7.8	490,006	223,830	766,623	2,260,713	4,011,182	5	6.4	74	79	1,704	0.2	2,060	4,176	0.1	14	
2,466	139,665	15	1.5	89,734	49,931	137,495	415,989	747,323	19	1.2	14	15	369	(*)	400	952	(*)	15	
4,872	202,672	8	3.2	221,047	71,625	324,682	685,937	1,392,432	12	2.2	41	47	543	0.1	647	1,649	0.1	16	
40,330	1,228,130	1	13.5	\$76,080	351,450	1,458,207	4,943,214	8,867,005	1	14.2	700	147	14,186	6,202	0.6	7,497	25,131	0.8	17
11,057	508,086	6	5.6	388,419	120,267	600,658	2,270,473	3,672,065	6	5.9	97	102	4,576	0.5	5,393	9,309	0.3	18	
27,973	1,135,837	2	12.5	914,159	221,678	1,406,066	4,210,409	7,315,703	2	11.7	5,807	3,621	77,325	32.9	445,218	819,451	25.9	19	
16,125	730,733	3	8.0	625,608	105,065	944,652	2,911,948	5,100,300	4	8.2	2,283	1,064	35,440	49,298	5.0	58,110	134,510	4.3	20
7,916	277,580	9	3.1	235,805	41,775	317,043	1,174,050	1,898,750	9	3.0	503	398	2,456	26,751	2.7	30,193	52,840	1.7	21
18,593	653,114	5	7.2	527,205	125,999	801,087	3,488,271	5,425,245	3	8.7	772	590	16,498	79,123	8.1	94,179	178,073	5.7	22
8,305	471,242	7	5.2	417,708	63,634	639,708	1,919,243	3,406,188	7	5.6	122	165	31,292	3.2	50,406	103,570	3.3	23	
10,393	263,949	10	2.9	223,638	40,311	290,441	1,127,275	1,846,984	10	3.0	92	107	3,547	0.4	4,750	10,551	0.3	24	
6,225	115,623	19	1.3	66,704	18,919	127,107	883,090	1,218,130	13	2.0	135	106	17,265	1.8	29,383	130,399	4.1	25	
5,683	80,551	27	0.9	68,080	12,471	90,117	520,241	745,473	20	1.2	198	226	11,274	1.1	12,467	18,474	0.6	26	
8,692	105,037	12	2.1	147,635	47,402	189,615	1,056,467	1,504,208	11	2.5	468	494	14,857	1.5	16,777	33,366	1.1	27	
4,472	48	(*)	4	4,136	336	5,401	44,490	57,374	47	0.1	70	79	774	0.1	1,029	1,927	0.1	28	
1,414	6,382	40	0.1	5,719	603	7,905	42,980	62,171	46	0.1	23	28	1,785	0.2	2,497	5,314	0.2	29	
2,884	30,521	35	0.4	31,275	5,246	40,087	480,774	596,042	24	1.0	9	9	1,162	(*)	166	293	(*)	30	
3,474	61,049	31	0.7	54,820	6,229	73,060	750,088	913,667	16	1.5	814	238	12,690	16,136	1.6	21,949	90,338	2.9	31
608	29,035	39	0.8	24,744	4,201	37,265	85,433	165,073	40	0.3	7	8	116	(*)	136	244	(*)	32	
4,937	140,342	14	1.5	104,977	35,365	147,887	549,347	873,945	17	1.4	126	161	5,028	0.6	6,152	9,699	0.3	33	
595	10,482	43	0.1	9,198	1,289	13,189	30,940	68,826	45	0.1	3	3	12	(*)	8	16	(*)	34	
5,603	119,352	18	1.3	99,353	19,999	120,007	371,541	643,512	23	1.0	202	216	14,547	1.5	16,108	29,363	0.9	35	
2,785	83,036	26	0.9	74,684	8,352	101,840	270,941	471,971	27	0.8	1,714	1,325	27,363	100,812	10.3	119,578	205,607	9.3	36
5,999	157,659	13	1.7	110,391	41,268	120,800	526,906	943,808	15	1.5	102	106	1,890	0.2	1,489	2,736	0.1	37	
2,004	79,450	28	0.9	60,800	18,650	62,566	227,980	381,453	32	0.6	20	20	933	0.1	680	1,351	(*)	38	
4,803	123,441	17	1.4	69,282	24,159	101,180	440,490	693,237	21	1.1	74	82	2,397	0.2	2,017	4,082	0.1	39	
2,582	74,416	29	0.8	68,688	6,747	87,433	92,680	213,327	35	0.3	36	55	3,372	0.3	3,108	8,976	0.3	40	
3,957	69,340	30	0.8	58,584	10,756	67,034	235,715	395,660	31	0.6	938	864	5,214	43,563	4.4	49,551	98,487	3.1	41
4,580	95,107	23	1.0	76,187	18,980	81,355	344,767	556,253	26	0.9	203	263	14,470	1.5	12,987	23,292	0.7	42	
3,654	107,159	21	1.2	96,753	10,376	99,006	300,664	492,731	26	0.8	264	348	32,579	3.3	36,230	59,866	1.0	43	
2,455	67,600	33	0.6	54,593	2,987	51,256	96,678	197,747	37	0.3	(*)	.....	.....	.....	.....	.....	.....	44
3,123	49,954	34	0.5	47,838	2,116	47,186	102,813	200,313	36	0.3	126	126	124	3,630	0.4	4,573	8,404	0.3	45
2,617	98,205	22	1.1	88,259	10,006	94,406	431,404	676,190	22	1.1	81,137	4	2,479	5,228	0.5	7,505	40,017	1.3	46
2,445	29,503	38	0.3	27,646	1,857	35,026	312,606	401,363	30	0.6	1,034	284	44,735	33,914	3.5	46,809	281,928	8.9	47
5,724	107,522	20	1.2	98,224	9,298	116,404	701,171	999,996	14	1.6	624	81	8,749	18,164	1.9	29,558	160,378	5.1	48
1,290	17,160	41	0.2	16,008	552	24,743	122,152	166,664	39	0.3	259	260	28	16,129	1.6	25,724	49,924	1.6	49
922	13,917	42	0.2	13,445	472	18,547	43,949	80,511	44	0.1	82	83	2,455	0.3	4,202	11,840	0.4	50	
576	6,634	45	0.1	6,545	89	11,189	42,250	81,445	43	0.1	106	87	1,084	9,699	1.0	14,576	41,929	1.3	51
2,631	35,254	36	0.4	31,902	3,352	42,975	174,370	275,622	34	0.4	477	523	70	16,790	1.7	25,405	51,217	1.6	52
887	5,736	47	0.1	5,616	120	6,659	7,727	17,566	49	(*)	85	103	1	7,100	0.7	10,494	18,872	0.6	53
480	8																		



Note.—The centers for manufactures and for all crops except cotton are based on data for the year preceding the census year indicated on the map; for the centers of cotton production the exact dates are shown on the map.

ARIZONA.

NUMBER AND DISTRIBUTION OF INHABITANTS.

Population of the state.—According to the Fourteenth Census, taken as of January 1, 1920, the population of Arizona is 334,162, which represents an increase of 129,808, or 63.5 per cent, over the population in 1910. During the same period the rate of increase for the United States was 14.9 per cent.

The following summary shows the population of

Arizona from 1870 to 1920, inclusive, together with the number and per cent of increase for each decade, in comparison with the per cent of increase for the United States as a whole. The population in 1860 of Arizona County, N. Mex., comprising the area now constituting the state of Arizona and a small part of Nevada, was 6,482.

POPULATION OF ARIZONA: 1870 TO 1920.

CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		Per cent of increase for the United States.
		Number.	Per cent.	
1920.....	334,162	129,808	63.5	14.9
1910.....	204,354	81,423	66.2	21.0
1900.....	122,931	34,688	39.3	20.7
1890.....	88,243	47,803	118.2	25.5
1880.....	40,440	30,782	318.7	30.1
1870.....	9,658	.....	.....	.....

Counties.—Arizona has 14 counties. (See Table 1.) One new county, Greenlee, was organized from part of Graham in 1911. It has been necessary, therefore, in preparing the maps showing rates of increase in total and rural population, to combine these two counties.

Density of population.—The total land area of the state is 113,810 square miles. The average number of inhabitants to the square mile in 1920 is 2.9 (see Table 1), as against 1.8 in 1910 and 1.1 in 1900.

Minor civil divisions.—The political units into which the counties are divided are collectively termed "minor civil divisions." The counties of Arizona

are made up of 421 primary divisions, comprising 350 election precincts, 24 school districts, 40 unorganized townships, 1 unincorporated city, and 6 unincorporated towns. There are, in addition to these, 31 secondary divisions, comprising 10 cities, 20 towns, and 1 unincorporated town. In a number of cases a city or other incorporated place comprises an entire precinct or two or more precincts or parts of two or more precincts. Eleven Indian reservations and parts of three others are located within the state. These, although independent of the county organizations, are shown in the table as parts of the counties in which they are wholly or partially located. The population not included in any of the specified

HISTORICAL NOTE.—The name Arizona is of Spanish-Indian origin and is variously stated to signify "small or few springs," "little creek," and "silver bearing."

The first recorded exploration of the region now constituting Arizona was made in 1589 by the Spaniard, Marcos de Niza, who was sent out from Mexico to confirm the rumors of great wealth which de Vaca had heard of in his wanderings. In 1540 Coronado traversed the region in his journey northward. The earliest settlements were made by Spanish missionaries toward the close of the seventeenth century.

This region formed a part of Mexico, which was under the dominion of Spain until 1821 it achieved its independence. In February, 1848, by the Mexican Revolution of 1821 it achieved its independence. In February, 1848, by the Mexican Revolution of 1848, Mexico ceded to the United States her claims to at the close of the Mexican War, Mexico ceded to the United States her claims to the territory north of the Rio Grande and Gila Rivers and extending westward to the Pacific Ocean, and in December, 1853, by the Gadsden Purchase, the United States acquired from Mexico a strip of territory bounded on the north principally by the Gila River and on the south by the present Mexican line.

In 1850 a territorial form of government had been established for New Mexico, which at that time extended westward to the California boundary, and in 1854 the territory acquired by the Gadsden Purchase was added to New Mexico. In 1863, by authority of an act of Congress passed in February of that year, the territory of Arizona was organized, with boundaries as at present, except that the northern line extended westward to California. The boundary between Arizona and Nevada was established at its present location in 1866.

In June, 1910, Congress passed an act to enable Arizona and New Mexico to form state constitutions and governments and to be admitted to the Union. In December of that year, a proposed state constitution for Arizona was adopted by a convention held at Phoenix and was ratified by the people in February, 1911. This constitution received the conditional approval of the Federal Government in August, 1911, and was referred to the people of the territory for amendment. February 14, 1912, the territory became the forty-eighth state of the Union.

POPULATION—ARIZONA.

divisions is shown under the title "Remainder of county." (See Table 2.)

Cities.—Arizona has 10 incorporated cities, of which Phoenix, with a population of 29,053, is the largest. (See Tables 3 and 4.)

The following summary shows, for each of the principal cities and towns in the state, the population at each census for which figures are available, together with the number and per cent of increase during the preceding decade:

POPULATION OF PRINCIPAL CITIES AND TOWNS FROM EARLIEST CENSUS TO 1920.

[A minus sign (−) denotes decrease.]

CITY OR TOWN AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		CITY OR TOWN AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		CITY OR TOWN AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.	
		Number.	Per cent.			Number.	Per cent.			Number.	Per cent.
Bisbee:				Miami:				Prescott:			
1920.....	9,205	186	2.1	1920.....	6,689	.....	.....	1920.....	5,010	−82	−1.6
1910.....	9,019	.....	.....	1910.....	.....	.....	.....	1910.....	5,092	1,633	43.1
Douglas:				Nogales:				1900.....	3,559	1,800	102.3
1920.....	9,916	3,479	54.0	1920.....	5,199	1,685	48.0	1890.....	1,759	−77	−4.2
1910.....	6,497	.....	.....	1910.....	3,514	1,753	99.5	1880.....	1,836	.....	.....
Globe:				1900.....	1,781	587	47.5	Tucson:			
1920.....	7,044	−39	−0.6	1920.....	1,194	.....	.....	1920.....	20,292	7,099	53.8
1910.....	7,083	.....	.....	1910.....	29,053	17,919	160.9	1910.....	13,193	5,662	75.2
				1910.....	11,134	5,590	100.8	1900.....	7,531	2,381	46.2
				1900.....	5,544	2,392	75.8	1890.....	5,150	−1,857	−26.5
				1890.....	3,152	.....	.....	1880.....	7,007	.....	.....

Urban and rural population.—The Census Bureau defines urban population as that residing in cities and other incorporated places having 2,500 inhabitants or more, and rural population as that residing outside such incorporated places.

The following summary presents, for the last three censuses, figures showing the urban and rural population of the state distributed among places grouped according to specified limits of population. The classification for each census is based upon the popu-

lation of the various places as shown by the returns of that census. Consequently the territory comprised within any one class of cities or that designated as urban or as rural does not remain fixed, because any given place may, through the growth or the decline of its population, pass from one class to another at successive censuses. The proportion of the population of Arizona living in places of 2,500 or more increased from 15.9 per cent in 1900 to 31 per cent in 1910 and to 35.2 per cent in 1920.

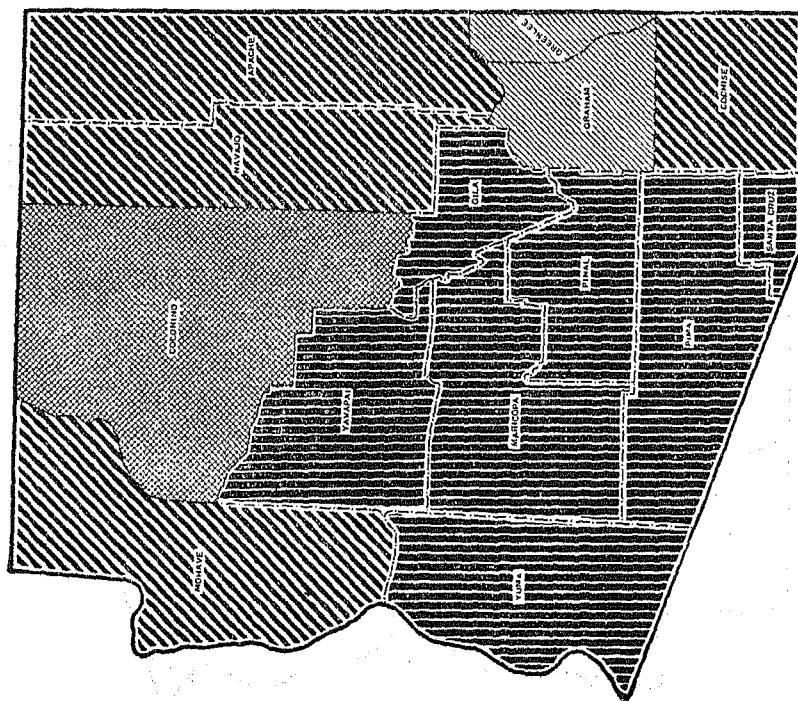
URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

CLASS OF PLACES.	1920		1910		1900		PER CENT OF TOTAL POPULATION.		
	Number of places.	Population.	Number of places.	Population.	Number of places.	Population.	1920	1910	1900
Total population.....	334	162	204	354	122	931	100.0	100.0	100.0
Urban territory.....	15	117,527	9	63,280	4	19,495	35.2	31.0	15.9
Cities and towns of—									
25,000 inhabitants or more.....	1	20,053					8.7	.....	.....
10,000 to 25,000 inhabitants.....	1	20,292	2	24,327			6.1	11.9	.....
5,000 to 10,000 inhabitants.....	6	43,063	4	27,631	2	13,075	12.9	13.5	10.6
2,500 to 5,000 inhabitants.....	7	25,119	3	11,302	2	6,420	7.5	5.5	5.2
Rural territory.....		216,635		141,094		103,436	64.8	69.0	84.1
Cities and towns of less than 2,500 inhabitants.....	15	15,122	13	16,406	10	8,849	4.5	8.0	7.2
Other rural territory.....		201,513		124,688		94,587	60.3	61.0	76.9

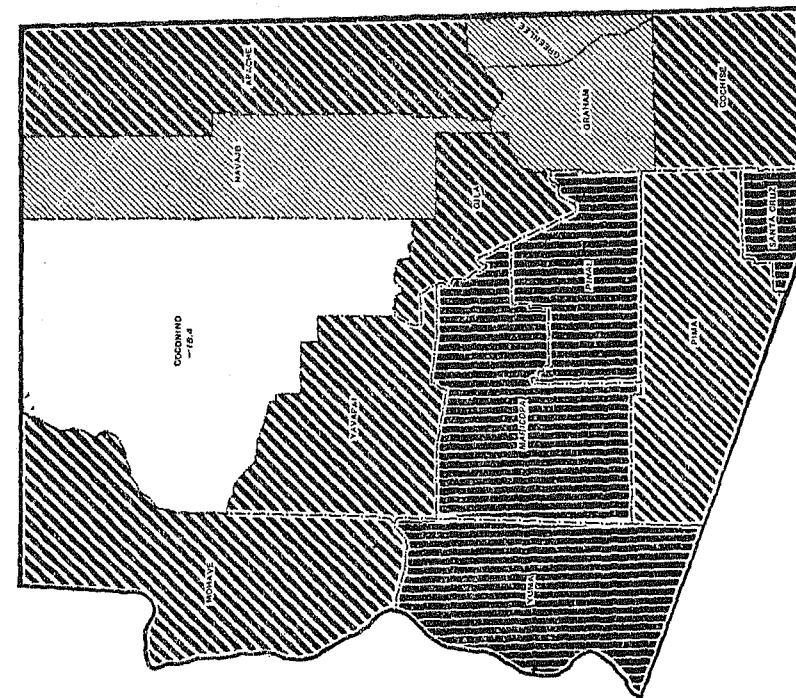
PER CENT OF INCREASE OR DECREASE OF POPULATION OF ARIZONA, BY COUNTIES: 1910-1920.

Rural population is defined as that residing outside of incorporated places having 2,500 inhabitants or more.

TOTAL POPULATION.



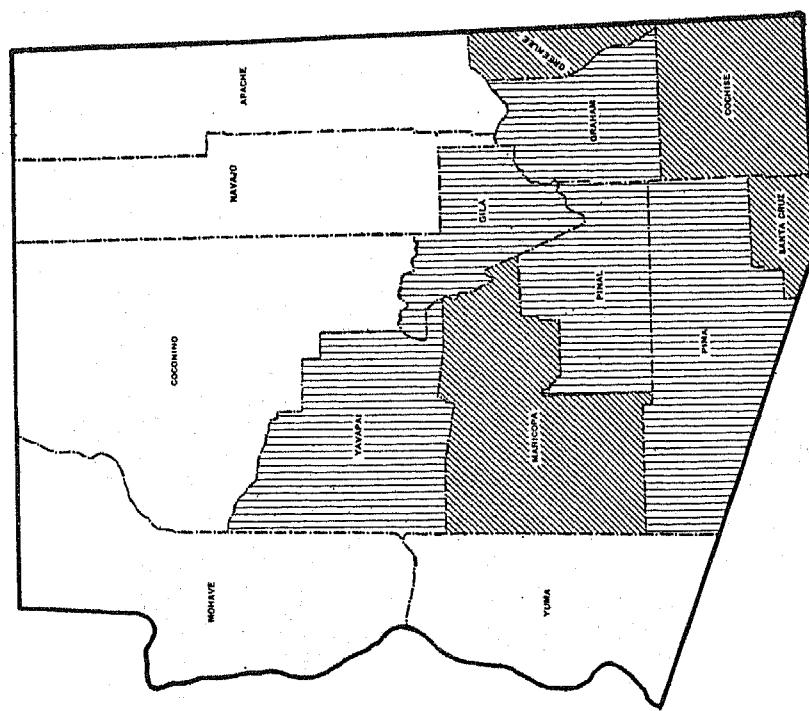
(9)



DENSITY OF POPULATION OF ARIZONA, BY COUNTIES: 1920.

Rural population is defined as that residing outside of incorporated places having 2,500 inhabitants or more.

TOTAL POPULATION.



NUMBER OF INHABITANTS PER SQUARE MILE



NUMBER AND DISTRIBUTION

TABLE 1.—AREA AND POPULATION OF COUNTIES: 1870 TO 1920

In computing the increase from 1890 to 1900 for certain counties, the population of Indian reservations in 1900 has been deducted from the total population of the county in order to make it comparable with the total for 1890, which does not include the population of Indian reservations. The population thus deducted in the several counties was as follows: Apache, 5,341; Gila, 709; Maricopa, 2,451; Pima, 1,513; Pinal, 2,954; Yuma, 558.

[A minus sign ($-$) denotes decrease.]

COUNTY.	Land area in square miles: 1920.	POPULATION.							Per cent of increase.		
		1920		1910	1900	1890	1880	1870	1910 to 1920.	1900 to 1910.	1890 to 1900.
		Total.	Per square mile.								
Arizona ¹	113,810	334,162	2.9	204,354	1 122,931	1 88,243	40,440	9,658	63.5	66.2	39.3
Apache ¹	11,379	13,106	1.2	9,196	8,297	4,281	5,283	.....	43.5	10.8	-31.0
Cochise ¹	6,170	46,465	7.5	34,591	9,251	6,938	.....	.....	34.3	273.9	33.3
Coconino ¹	18,623	9,982	0.5	8,130	5,514	.....	.....	.....	22.8	47.4	.....
Gila ¹	4,099	25,078	5.5	16,348	1 4,973	2,021	.....	.....	57.1	228.7	111.0
Graham ¹	4,630	10,148	2.2	23,999	1 14,162	5,670	.....	.....	-57.7	69.5	149.8
Greenlee ¹	1,878	15,362	8.2	.....	.....	.....	.....	.....	.....	.....	.....
Maricopa ¹	8,891	89,576	10.1	34,488	20,457	10,980	5,689	.....	159.7	68.6	63.9
Mohave	13,890	5,259	0.4	3,773	3,426	1,444	1,190	179	39.4	10.1	137.8
Navajo ¹	9,899	16,077	1.6	11,471	8,829	.....	.....	.....	40.2	29.9	.....
Yuma ¹	9,605	34,080	3.6	22,818	14,080	12,073	17,000	5,710	52.0	55.3	3.7
Pinal ¹	5,380	16,130	3.0	9,045	7,779	4,251	3,044	.....	78.3	16.3	13.5
Santa Cruz ¹	1,229	12,689	10.3	6,706	4,545	.....	.....	.....	87.5	48.9	.....
Yavapai ¹	8,150	24,016	2.9	15,996	13,799	8,635	5,013	2,142	50.1	15.9	58.9
Yuma	9,987	14,904	1.5	7,733	4,145	2,671	3,215	1,621	92.7	86.6	34.3

CHANGES IN BOUNDARIES, ETC.

THE STATE.—Total for 1900 includes population (3,065) of San Carlos Indian Reservation, in Gila and Graham Counties, not returned separately by counties (see notes for Gila and Graham Counties); total for 1890 includes population (28,623) of all Indian reservations specially enumerated in 1890 and not distributed by counties.

APACHE.—Organized from part of Yavapai in 1879; part taken to form part of Graham in 1881; part taken to form Navajo in 1895.

COCHISE.—Organized from part of Pima in 1881.

GILA.—Organized from parts of Maricopa and Pinal in 1881. Figure for 1900 excludes estimated population (2,272) of part of San Carlos Indian Reservation.

GRAHAM.—Organized from parts of Apache and Pima in 1881. Part taken to form Greenlee in 1911. Figure for 1900 excludes estimated population (702) of part of San Carlos Indian Reservation not returned separately by counties.

part of San Carlos Indian Reservation, not returned separately by counties.
GREENLEE.—Organized from part of Graham in 1911.

MARICOPA.—Organized from part of Yavapai in 1871; part of Pima annexed in 1873; parts taken to form part of Pinaleon 1875 and part of Gila in 1881.

NAVAJO.—Organized from part of Apache in 1895.

PIMA.—Part taken to form part of Pinal in 1875; parts annexed to Maricopa in 1873 and Pinal in 1877; parts taken to form Cochise and part of Graham in 1881 and Santa Cruz in 1890.

PINAL.—Organized from parts of Maricopa, Pima, and Yavapai in 1875; part of Pima annexed in 1877; part taken to form part of Gila in 1881.

SANTA CRUZ.—Organized from part of Pima in 1899.
YAVAPAI.—Parts taken to form Maricopa in 1871, Apache in 1879, Coconino in 1891, and part of Pinal in 1875.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920

[Precinct means election precinct. No comparison with previous censuses can be made, counties having been redistricted since 1910. For population of incorporated places see Table 3.]

MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920
Apache County.....	13,196	Cochise County—Continued.		Cochise County—Continued.	
Adamana precinct.....	112	Dos Cabezas precinct.....	360	Webb precinct.....	309
Alpine precinct.....	147	Don Luis precinct.....	1,207	West Huachuca precinct ¹	2,1,572
Bibe precinct.....	67	Douglas precinct, coextensive with Douglas city.....	9,916	White Water precinct.....	352
Chambers precinct.....	361	Douglas precinct No. 1 ²	2,019	Wilcox precinct, including Wilcox town.....	1,303
Concho precinct.....	500	Douglas precinct No. 3.....	650	Wilgus precinct.....	146
Cooley precinct.....	983	Dragoon precinct.....	100		
Eagar precinct.....	635	Fairbank precinct.....	269		
Greer precinct.....	46	Garces precinct.....	273	Coconino County.....	9,982
Houck precinct.....	104	Gleeson precinct.....	381	Cliff precinct.....	300
Hunt precinct.....	48	Heraford precinct.....	501	Flagstaff precinct, including Flagstaff town.....	3,716
Nutrioso precinct.....	154	Johnson precinct.....	435	Fredonia precinct.....	243
Richville precinct.....	53	Light precinct.....	125	Garland Prairie precinct.....	104
St. Johns precinct.....	1,204	Lowell precinct.....	3,520	Grand Canyon precinct.....	373
Springerville precinct.....	479	Lusk precinct.....	414	Rad Lake precinct.....	100
Vernon precinct.....	267	McAllister precinct.....	111	Riordan precinct.....	133
Fort Apache Indian Reservation ¹ (part of).....	97	McNeal precinct.....	348	Sedona precinct.....	112
Navajo Indian Reservation ¹ (part of).....	7,849	Naco precinct.....	543	Spring Valley precinct.....	57
Cochise County.....	46,465	Osborne precinct.....	181	Tuba city ²	124
Benson precinct.....	825	Paradise precinct.....	335	Welch precinct.....	51
Bernardino precinct.....	100	Pearce precinct.....	604	Williams precinct, including Williams town.....	1,544
Bisbee precinct, including Bisbee city.....	9,317	Pirtleville precinct.....	3,216	Winona precinct.....	45
Bowie precinct.....	885	Pool precinct.....	160	Township 12 north, range 13 east.....	4
Buena precinct.....	127	Robinson precinct.....	258	Township 13 north, range 13 east.....	3
Central Bridge precinct.....	163	Rucker precinct.....	140	Township 14 north, range 11 east.....	1
Cochise precinct.....	210	St. David precinct.....	264	Township 15 north, range 8 east.....	5
Courtland precinct.....	414	San Simon precinct.....	526	Township 15 north, range 11 east.....	4
Curtis precinct.....	96	Servass precinct.....	139	Township 15 north, range 12 east.....	4
¹ APACHE.—Total population of Fort Apache Indian Reservation, in Apache, Gila, and Navajo Counties, 2,437. Total population of Navajo Indian Reservation, in Apache, Coconino, and Navajo Counties, Ariz., McKinley and San Juan Counties, N. Mex., and San Juan County, Utah, 17,499.		Slaughter precinct.....	124	Township 15 north, range 13 east.....	5
² COCHISE.—Population of Douglas precinct No. 1 includes that of Camp Harry J. Jones (1,803), and West Huachuca precinct, that of Fort Huachuca Military Reservation (1,424).		Tombstone precinct, including Tombstone city.....	1,295	Township 15 north, range 14 east.....	6
		Turner precinct.....	100	Township 15 north, range 15 east.....	9
		Warren precinct.....	2,042	Township 16 north, range 8 east.....	1
				Township 16 north, range 11 east.....	6
				Township 16 north, range 15 east.....	1
				Township 17 north, range 9 east.....	2
				Township 18 north, range 9 east.....	1

Curtis precinct..... 96
1 APACHE.—Total population of Fort Apache Indian Reservation, in Apache, Gila, and Navajo Counties, 2,437. Total population of Navajo Indian Reservation, in Apache, Coconino, and Navajo Counties, Ariz., McKinley and San Juan Counties, N. Mex., and San Juan County, Utah, 17,499.

POPULATION—ARIZONA.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920—Continued.

[Precinct means election precinct. No comparison with previous censuses can be made, counties having been redistricted since 1910. For population of incorporated places, see Table 3.]

MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920
Coconino County—Continued.		Greenlee County ⁶	15,362	Maricopa County—Continued.	
Township 18 north, range 12 east.....	3	Bliss precinct.....	270	Precinct 54, Agua Caliente.....	57
Township 22 north, range 1 west.....	14	Clifton precinct, including Clifton town.....	4,214	Precinct 55, Sentinel.....	119
Township 22 north, range 3 west.....	5	Duncan precinct.....	897	Precinct 56, Alkire.....	1,321
Township 23 north, range 1 west.....	5	Eagle precinct.....	161	Precinct 57, Park View.....	397
Township 23 north, range 4 west.....	4	Franklin precinct.....	211	Precinct 58, Christy.....	779
Township 24 north, range 1 west.....	7	Guthrie precinct.....	87	Glendale town, ⁷ in precincts 31 and 32.....	2,737
Township 24 north, range 2 west.....	7	Metcalfe precinct.....	1,740	Camp McDowell Indian Reservation.....	104
Township 28 north, range 1 west.....	5	Morenci precinct No. 1.....	3,751	Gila Bend Indian Reservation.....	(⁸)
Township 30 north, range 2 west.....	1	Morenci precinct No. 2.....	3,750	Gila River Indian Reservation ⁷ (part of).....	1,232
Havasupai (Supai) Indian Reservation.....	152	Sheldon precinct.....	87	Salt River Indian Reservation.....	943
Hopi (Moqui) Indian Reservation ³ (part of).....	283	York precinct.....	194	Mohave County ⁸	5,259
Navajo Indian Reservation ³ (part of).....	2,503			District 1, McConnico.....	246
Walapai Indian Reservation ³ (part of).....	32			District 2, Goldhead.....	23
Gila County.....	25,678			District 3, Hackberry, exclusive of part of	
Globe precinct No. 1, including ward 6 of				Walapai Indian Reservation.....	241
Globe city.....	2,568			District 4, Kingman, exclusive of part of	
Globe precinct No. 2, including ward 5 of				Walapai Indian Reservation.....	1,276
Globe city.....	717			District 5, Whitney.....	79
Globe precinct No. 3, comprising ward 4 of				District 6, Owens.....	80
Globe city.....	964			District 7, Signal.....	75
Globe precinct No. 4, comprising ward 3 of				District 8, Peach Springs, exclusive of part	
Globe city.....	1,197			of Walapai Indian Reservation.....	152
Globe precinct No. 5, comprising ward 2 of				District 9, Littlefield.....	98
Globe city.....	1,265			District 10, Moccasin, exclusive of Kaibab	
Globe precinct No. 6, including ward 1 of				Indian Reservation.....	48
Globe city.....	1,477			District 11, Chloride.....	450
Globe precinct No. 7 ⁴				District 12, Topock, exclusive of part of	
Globe precinct No. 8 ⁴				Fort Mojave Indian Reservation.....	54
Globe precinct No. 9 ⁴				District 13, Yucca.....	161
Hayden precinct No. 1.....	371			District 14, Short Creek.....	67
Hayden precinct No. 2.....	2,077			District 15, Golconda.....	102
Hayden precinct No. 3.....	60			District 16, Oatman.....	975
Miami precinct No. 1, including ward 1 of				District 17, Bland.....	56
Miami town.....	1,424			District 18, Planet.....	79
Miami precinct No. 2, including ward 2 of				District 19, Trout Creek.....	85
Miami town.....	3,045			District 20, Cane Beds.....	58
Miami precinct No. 3, including ward 3 of				District 21, Old Trails.....	100
Miami town.....	5,302			District 22, Truxton.....	19
Miami precinct No. 4.....	548			District 23, Glenwood, exclusive of part of	
Miami precinct No. 5.....	58			Fort Mojave Indian Reservation.....	21
Miami precinct No. 6.....	83			District 24, Mount Trumbull.....	97
Miami precinct No. 7.....	324			Fort Mojave Indian Reservation ⁸ (part of).....	195
Payson precinct No. 1.....	358			Kaibab Indian Reservation.....	105
Payson precinct No. 2.....	28			Walapai Indian Reservation ⁸ (part of).....	387
Pine precinct.....	136	Precinct 23, Kyrene, exclusive of part of	1,550	Navajo County.....	16,077
Roosevelt precinct No. 1.....	133	Gila River Indian Reservation.....		Heber precinct.....	
Roosevelt precinct No. 2.....	347	Precinct 24, Heard, exclusive of part of Gila		Holbrook precinct, including Holbrook	
Roosevelt precinct No. 3.....	90	River Indian Reservation.....	991	town.....	110
Winklemann precinct No. 1, coextensive with		Precinct 25, Broadway.....	1,013	Kearns Canyon precinct.....	1,277
Winklemann town.....	573	Precinct 26, Laveen, exclusive of part of		Lakeside precinct.....	100
Winklemann precinct No. 2.....	419	Gila River Indian Reservation.....	875	Linden precinct.....	224
Young precinct.....	306	Precinct 27, Fowler, exclusive of part of		Pinedale precinct.....	75
Fort Apache Indian Reservation ⁴ (part of).....	505	Gila River Indian Reservation.....	892	Pinetop precinct.....	293
San Carlos Indian Reservation ⁴ (part of).....	248	Precinct 28, Meridian, exclusive of part of		St. Joseph precinct.....	62
Graham County ⁵	10,148	Gila River Indian Reservation.....	836	Showlow precinct.....	271
Precinct 1, Safford, including Safford town.....	2,384	Precinct 29, Washington No. 1 and No. 2.....	1,349	Shunway precinct.....	258
Precinct 2, Hubbard.....	192	Precinct 30, Peoria.....	2,371	Silver Creek precinct.....	99
Precinct 3, Lebanon.....	135	Precinct 31, Glendale No. 1, ⁷ exclusive of		Snowflake precinct, including Snowflake	
Precinct 4, San Jose.....	551	part of Glendale town.....	1,148	town.....	152
Precinct 5, Solomonsville.....	870	Precinct 32, Glendale No. 2, ⁷ exclusive of		Taylor precinct.....	805
Precinct 6, Pima, including Pima town.....	1,052	part of Glendale town.....	520	White River precinct.....	420
Precinct 7, Fort Thomas.....	283	Precinct 33, Osborn No. 1.....	977	Winslow precinct No. 1, comprising part of	
Precinct 8, Bonita.....	335	Precinct 34, Osborn No. 2.....	1,083	Winslow town.....	1,520
Precinct 9, Klondyke.....	461	Precinct 35, Osborn No. 3.....	345	Winslow precinct No. 2, including part of	
Precinct 10, Artesia.....	358	Precinct 36, Los Olivos No. 1.....	918	Winslow town.....	1,366
Precinct 11, Lompoc.....	46	Precinct 37, Alhambra.....	412	Winslow precinct No. 3, comprising part of	
Precinct 12, Thatcher, including Thatcher		Precinct 38, Isaac.....	858	Winslow town.....	893
town.....	1,198	Precinct 39, Cartwright.....	2,278	Woodruff precinct.....	113
Precinct 13, Eden.....	355	Precinct 40, Orme.....	597	Township 21 north, range 19 east.....	3
Precinct 14, Stanley.....	54	Precinct 42, Riverside.....	692	Township 22 north, range 17 east.....	6
Precinct 15, Central.....	379	Precinct 43, Murphy.....	578	Township 22 north, range 19 east.....	2
Precinct 16, Geromino.....	203	Precinct 44, Cotton City.....	517	Township 23 north, range 17 east.....	1
Precinct 17, Bryce.....	167	Precinct 45, Coldwater.....	177	Township 24 north, range 21 east.....	4
Precinct 18, Galuro.....	213	Precinct 46, Morristown.....	425	Fort Apache Indian Reservation ⁹ (part of).....	1,745
Precinct 19, Columbine.....	83	Precinct 47, Liberty.....	726	Hopi (Moqui) Indian Reservation ⁹ (part of).....	4,110
Precinct 20, Red Land.....	211	Precinct 48, Buckeye.....	325	Navajo Indian Reservation ⁹ (part of).....	1,832
San Carlos Indian Reservation ⁵ (part of).....	618	Precinct 49, Palo Verde.....	745	Pima County.....	34,680

³COCONINO.—Tuba city not incorporated. Total population of Hopi (Moqui) Indian Reservation, in Coconino and Navajo Counties, 4,393. Total for Walapai Indian Reservation, in Coconino and Mohave Counties, 419. For total population of Navajo Indian Reservation, see Apache County.

⁴GILA.—Globe precincts Nos. 7, 8, and 9 not returned separately. For total population of Fort Apache Indian Reservation, see Apache County. Total population of San Carlos Indian Reservation, in Gila and Graham Counties, 866.

⁵GRAHAM.—Part taken to form Greenlee County in 1911. For total population of San Carlos Indian Reservation, see Gila County.

⁶GREENLEE.—Organized from part of Graham County in 1911.

⁷MARICOPA.—Precinct 37, Los Olivos No. 2, for which no population was returned, is not included in this table. No returns for Gila Bend Indian Reservation, Indians having migrated to Mexico. Total population of Gila River Indian Reservation, in Maricopa and Pinal Counties, 3,655. Glendale town not returned by precincts; total population of precincts 31 and 32 can not, therefore, be shown separately.

⁸MOHAVE.—Returned by school districts. For total population of Walapai Indian Reservation, see Coconino County. Total population of Fort Mojave Indian Reservation, in Mohave County, Ariz., and Clark County, Nev., 235.

⁹NAVAJO.—For total population of Fort Apache and Navajo Indian Reservations, see Apache County; for Hopi (Moqui) Indian Reservation, see Coconino County.

NUMBER AND DISTRIBUTION.

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TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920—Continued.

[Precinct means election precinct. No comparison with previous censuses can be made, counties having been redistricted since 1910. For population of incorporated places, see Table 3.]

MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920	MINOR CIVIL DIVISION.	1920
Pima County—Continued.					
Fort Lowell precinct.....	810	Precinct 4, Patagonia.....	757	Prescott precinct, Southwest, comprising part of Prescott city.....	1,667
Greaterville precinct.....	248	Precinct 5, Marshaw.....	377	Prescott precinct.....	166
Indian Oasis precinct.....	103	Precinct 6, Washington Camp.....	374	Red Rock precinct.....	49
Langhorne precinct.....	1,468	Precinct 7, Lochiel.....	93	Seligman precinct.....	668
Fantana precinct.....	212	Precinct 8, Canille.....	94	Simmons precinct.....	160
Quijotoa precinct.....	33	Precinct 9, Montana Camp.....	218	Skull Valley precinct.....	241
Redington precinct.....	94	Precinct 10, Elgin.....	128	Sycamore Station precinct.....	50
Rosemont precinct.....	318	Precinct 11, Sopori.....	373	Thumb Butte precinct.....	49
Sahuarita precinct.....	635	Precinct 12, San Rafael.....	134	Turkey precinct.....	25
San Xavier precinct, exclusive of part of Papago Indian Reservation.....	810	Precinct 13, Salero.....	40	Walnut Creek precinct.....	39
Silver Bell precinct.....	547	Precinct 14, Sonoita.....	114	Whipple Heights precinct.....	625
Tanque Verde precinct.....	133	Precinct 15, Vaughn.....	85	Yavapai precinct.....	16
Tucson precinct, including Tucson city.....	22,707	Precinct 16, Mowry.....	124	Township 14 north, range 9 west.....	27
Twin Buttes precinct.....	422	Nogales town, ¹² in precincts 1 and 2.....	5,199	Township 14 north, range 10 west.....	3
Vail precinct.....	172			Township 15 north, range 9 west.....	2
Papago Indian Reservation ¹⁰ (part of).....	3,038			Township 15 north, range 10 west.....	2
Pinal County.					
16,130		Yavapai County.	24,016	Township 16 north, range 2 west.....	328
Precinct 1, Florence, including Florence town.....	2,001	Ash Fork precinct.....	571	Remainder of county.....	90
Precinct 2, Superior.....	2,404	Audley precinct.....	13		
Precinct 3, Casa Grande, including Casa Grande town.....	1,412	Camp Verde precinct ¹³	13	Yuma County.	
Precinct 4, Feldman.....	340	Mayer precinct ¹³	13	14,904	
Precinct 5, Mammoth.....	324	Cedar Glade precinct.....	293	Alamo precinct.....	24
Precinct 6, Price.....	14	Cherry precinct.....	56	Aztec precinct.....	62
Precinct 7, Maricopa.....	418	Chino precinct.....	19	Bouse town ¹⁴	167
Precinct 8, Oracle.....	130	Clarkdale precinct.....	2,435	Castle Dome precinct.....	22
Precinct 9, Kelvin.....	300	Columbia precinct.....	50	Cibola precinct.....	19
Precinct 10, Red Rock.....	137	Congress town ¹⁵	220	Crane precinct.....	2,184
Precinct 11, Kenilworth.....	158	Congress Junction precinct.....	321	Gadsden precinct.....	1,839
Precinct 12, Ray.....	4,272	Copper Basin precinct.....	49	Gregg precinct.....	868
Precinct 15, Toltec.....	127	Cottonwood precinct.....	1,621	Hoges Ferry precinct.....	9
Precinct 16, Cottonwood.....	128	Crown King precinct.....	177	Mohawk precinct.....	99
Precinct 18, Copper Creek.....	120	Dewey precinct.....	162	Norton precinct.....	38
Precinct 19, Summerland.....	75	Granite Dells precinct.....	142	Palomas precinct.....	46
Precinct 20, Picacho.....	155	Granite Mountain precinct.....	83	Quartzsite precinct.....	117
Precinct 22, Susco.....	189	Groom Creek precinct.....	85	Rod precinct.....	799
Precinct 23, Magna.....	27	Haynes town ¹⁵	50	Salomé precinct.....	73
Gila River Indian Reservation ¹¹ (part of).....	2,723	Hillside town ¹⁵	38	Silver precinct.....	8
Papago Indian Reservation ¹¹ (part of).....	616	Humboldt precinct.....	1,000	Somerton precinct, including Somerton city.....	1,093
Santa Cruz County.					
12,689		Jerome precinct No. 1, South, including part of Jerome city.....	1,489	Swansboro precinct.....	337
Precinct 1, Nogales, ¹² exclusive of part of Nogales town.....	3,845	Jerome precinct No. 2, South, including part of Jerome city.....	1,967	Vicksburg precinct.....	98
Precinct 2, Nogales, ¹² exclusive of part of Nogales town.....	297	Jerome precinct No. 3, South, including part of Jerome city.....	2,422	Wellton town ¹⁴	88
Precinct 3, Tubac.....	437	Jerome precinct, North.....	200	Wendon precinct.....	129
¹⁰ FIMA.—Total population of Papago Indian Reservation, in Pima and Pinal Counties, 3,652.					
¹¹ PINAL.—Total population of Gila River Indian Reservation, see Maricopa County; for Papago Indian Reservation, see Pima County.					
¹² SANTA CRUZ.—Nogales town not returned by precincts; total population of precincts 1 and 2 can not, therefore, be shown separately. Population of precinct 1, Nogales, includes that of Camp Stephen D. Little (3,261).					
¹³ YAVAPAI.—Camp Verde and Mayer precincts not returned separately. Congress, Haynes, Hillsides, and Nelson towns not incorporated.					
¹⁴ YUMA.—Bouse, Parker, and Wellton towns not incorporated. Population of Parker town, 282. Total population of Colorado River Indian Reservation, in Yuma County, Ariz., and Riverside and San Bernardino Counties, Calif., 1,006.					

TABLE 3.—POPULATION OF INCORPORATED PLACES: 1920, 1910, AND 1900.

[The absence of population figures for 1910 or 1900 indicates that the place was incorporated at some date between the censuses.]

CITY OR TOWN.	County.	1920	1910	1900	CITY OR TOWN.	County.	1920	1910	1900
Bisbee city.....	Cochise.....	9,205	9,019	.....	Pima town.....	Graham.....	515	500	521
Casa Grande town.....	Pinal.....	948	.....	.....	Prescott city.....	Yavapai.....	5,010	5,092	3,559
Clifton town.....	Greenlee.....	4,163	4,874	.....	Safford town.....	Graham.....	1,336	929	.....
Douglas city.....	Cochise.....	9,916	6,437	.....	Snowflake town.....	Navajo.....	758	.....	.....
Flagstaff town.....	Coconino.....	3,186	1,633	1,271	Somerton city.....	Yuma.....	938	.....	.....
Florence town.....	Pinal.....	1,161	807	.....	Tempe town.....	Maricopa.....	1,063	1,473	885
Gilbert town.....	Maricopa.....	865	.....	.....	Thatcher town.....	Graham.....	899	904	644
Glendale town.....	Maricopa.....	2,787	.....	.....	Tombstone city.....	Cochise.....	1,178	1,582	646
Globe city.....	Gila.....	7,044	7,083	.....	Tucson city.....	Pima.....	20,292	13,193	7,531
Holbrook town.....	Navajo.....	1,206	.....	.....	Wickenburg town.....	Maricopa.....	527	570	.....
Jerome city.....	Yavapai.....	4,030	2,393	2,861	Wilcox town.....	Cochise.....	905	.....	.....
Mesa town.....	Maricopa.....	3,036	1,692	722	Williams town.....	Coconino.....	1,350	1,267	.....
Miami town.....	Gila.....	6,089	.....	.....	Winkelman town.....	Gila.....	573	.....	.....
Nogales town.....	Santa Cruz.....	5,199	3,614	1,761	Winslow town.....	Navajo.....	3,730	2,381	1,305
Phoenix city.....	Maricopa.....	29,053	11,134	5,544	Yuma city ¹	Yuma.....	4,287	2,914	.....

¹ Yuma town incorporated as a city since 1910.

POPULATION—ARIZONA.

TABLE 4.—POPULATION OF WARDS OF CITIES AND TOWNS HAVING 5,000 INHABITANTS OR MORE: 1920.

WARD.	1920	WARD.	1920	WARD.	1920
Bisbee city.....	9,205	Globe city.....	7,044	Nogales town.....	5,199
Ward 1.....	4,685	Ward 1.....	1,168	(Not reported by wards.)	
Ward 2.....	2,203	Ward 2.....	1,265	Phoenix city.....	29,053
Ward 3.....	2,417	Ward 3.....	1,197	(Not reported by wards.)	
Douglas city.....	9,916	Ward 4.....	964	Prescott city.....	5,010
Ward 1.....	1,729	Ward 5.....	490	(Not reported by wards.)	
Ward 2.....	1,480	Ward 6.....	1,960	Tucson city.....	20,292
Ward 3.....	1,599	Miami town.....	6,689	Ward 1.....	11,311
Ward 4.....	1,355	Ward 1.....	1,195	Ward 2.....	8,981
Ward 5.....	1,806	Ward 2.....	2,413		
Ward 6.....	1,947	Ward 3.....	3,081		

TABLE 5.—URBAN AND RURAL POPULATION OF COUNTIES: 1920, 1910, AND 1900.

[A minus sign (—) denotes decrease.]

COUNTY.	POPULATION.						PER CENT URBAN IN TOTAL POPULATION.			PER CENT OF INCREASE IN—				Rural population per square mile: 1920.
	1920		1910		1900		1920	1910	1900	Urban population.	Rural population.			
	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	1910 to 1920.	1900 to 1910.	1910 to 1920.	1900 to 1910.				
Arizona.....	117,527	216,635	63,260	141,094	10,495	103,436	35.2	31.0	15.9	85.8	224.5	53.5	36.4	1.9
Cochise.....	19,121	27,344	15,456	19,135	9,251	41.2	44.7	.....	23.7	.....	42.9	106.8	4.4	
Coconino.....	3,186	6,798	3,130	5,514	31.9	31.9	.....	.....	.....	.....	-16.4	47.4	0.4	
Gila.....	13,733	11,945	7,083	9,265	4,978	53.5	43.3	.....	93.9	.....	28.9	86.3	2.5	
Greenlee.....	4,183	11,199	.....	.....	.....	27.1	.....	.....	.....	.....	.....	.....	0.0	
Maricopa.....	34,826	54,750	11,134	23,334	5,544	14,913	30.0	32.3	27.1	212.8	100.8	134.4	56.6	6.2
Navajo.....	3,730	12,347	.....	11,471	8,829	23.2	.....	.....	.....	.....	7.6	20.9	1.2	
Pima.....	20,292	14,388	13,193	9,625	7,531	7,158	58.5	57.8	51.3	53.8	75.2	49.5	34.5	1.5
Santa Cruz.....	5,199	7,490	3,514	3,252	4,545	41.0	51.9	48.0	.....	.....	130.3	-28.4	0.1	
Yavapai.....	8,010	14,076	5,082	10,904	6,420	7,379	37.6	31.8	46.5	77.5	-20.7	37.3	47.8	1.8
Yuma.....	4,237	10,667	2,914	4,819	4,145	28.4	37.7	45.4	.....	.....	121.4	18.3	1.1	
All other counties ²	44,733	4,874	41,139	33,664	.....	7.7	.....	.....	.....	.....	8.7	22.2	1.3	

¹ Total for 1900 includes population (3,065) of San Carlos Indian Reservation, in Gila and Graham Counties, not returned separately by counties.² Comprises all counties in which there were no incorporated places having 2,500 inhabitants or more in 1920. These counties are Apache, Graham, Mohave, and Pinal.

COMPOSITION AND CHARACTERISTICS OF THE POPULATION.

This section gives detailed statistics as to the composition and characteristics of the population on January 1, 1920. It contains detailed tables, which present statistics of color or race, nativity, parentage, sex, age, school attendance, citizenship, illiteracy, dwellings and families, and country of birth, for the state and for its counties and cities. There are, besides, eight summary tables, which reproduce from the detailed tables the more important state and city totals, and supplemental tables for the Indian population. There are, also, statistics which cover the following subjects, not included in the second series of state bulletins: Marital condition, state of birth, year of immigration, inability to speak English, country of origin, mother tongue, and ownership of homes. The full presentation of all these subjects is contained in Volume II of the Fourteenth Census Reports.

The principal occupations, as reported for persons 10 years of age and over, are given by sex, color or race, nativity, parentage, and age periods, followed by a summary, by marital condition and age groups, of women gainfully occupied.

Because of the wide differences in characteristics among the various classes of the population, the statistics on each subject are shown according to color or race, and for the white population according to nativity and parentage. Classification according to nativity and parentage has not been deemed necessary for the other races, since nearly all Negroes and Indians are natives of native parentage, while nearly all Chinese and Japanese are either foreign born or of foreign parentage.

The white population is divided into four groups: (1) Native, native parentage—that is, having both parents born in the United States; (2) native, foreign parentage—having both parents born abroad; (3) native, mixed parentage—having one parent native and the other foreign born; (4) foreign born. As the second and third classes do not differ greatly in characteristics, they are combined in certain tables; and in some cases all three native classes are combined.

The presentation of statistics on country of birth of the foreign-born white population is made on the basis of the postwar map. Because of the many political changes which have resulted from the war, comparative figures for 1910 for this class of the population by individual European countries are not presented here.

Since marked differences often exist between urban and rural communities with respect to the composition

and characteristics of their population, the two classes are shown separately in connection with several of the subjects. Urban population, as defined by the Census Bureau, is that residing in cities and other incorporated places having 2,500 inhabitants or more, the remainder being classified as rural.

The census inquiry as to school attendance was merely as to whether the person enumerated had attended school, college, or any kind of educational institution at any time between September 1, 1919, and the census date, January 1, 1920.

The Census Bureau classifies as illiterate any person 10 years of age or over who is unable to write in any language, not necessarily English, regardless of ability to read.

The statistics of marital condition relate only to persons 15 years of age and over, as the number of persons under 15 who are married, widowed, or divorced is naturally insignificant. The terms refer only to the marital status of the population on the census date.

The returns as to state of birth are valuable mainly for the light they throw on the migration of the native population within the United States; they show, for each state, the population residing there on January 1, 1920, distributed as born in the state or elsewhere.

Since the foreign-born population consists mainly of foreign-born whites, the statistics for citizenship relate to this class only. The classification embraces four groups, namely, persons reported as naturalized, persons reported as having taken out first papers, persons reported as aliens, and persons for whom citizenship was not reported.

The inquiry as to year of immigration supplies a means for determining what proportion of the immigrants who arrived during a given year or period of years were still alive and residing in this country on the census date.

The foreign white stock comprises the total of three classes, the foreign-born whites, the native whites of foreign parentage (both parents born abroad), and the native whites of mixed parentage (one parent native and the other foreign born). The term "country of origin," as used in this report, signifies the country of birth of the father of a foreign-born person or the foreign-born parent or parents of a native. The term "mother tongue" means the language of customary speech in the homes of immigrants before immigration.

POPULATION—ARIZONA.

TABLE 1.—COLOR OR RACE, NATIVITY, PARENTAGE, AND SEX, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

CLASS OF POPULATION.	NUMBER.			PER CENT OF TOTAL.			1920		1910		1900		MALES TO 100 FEMALE ¹		
	1920	1910	1900	1920	1910	1900	Male.	Female.	Male.	Female.	Male.	Female.	1920	1910	1900
THE STATE.															
Total population.....	334,162	204,354	122,931	100.0	100.0	100.0	183,602	150,580	118,574	85,780	71,795	51,138	121.9	138.2	140.4
White.....	291,440	171,468	92,903	87.2	83.9	75.6	158,345	132,104	100,871	70,597	55,230	37,673	120.6	142.9	146.6
Negro.....	8,005	2,009	1,848	2.4	1.0	1.5	5,859	2,146	1,054	955	1,303	485	273.0	110.4	281.1
Indian.....	32,959	29,201	26,480	9.9	14.3	21.5	17,028	15,961	15,056	14,145	13,551	12,929	106.7	108.4	104.8
Chinese.....	1,137	1,305	1,419	0.3	0.6	1.2	963	174	1,242	63	1,387	32	553.4	.....	.....
Japanese.....	560	371	281	0.2	0.2	0.2	383	167	351	20	204	17	220.3	.....	.....
All other.....	2,32	.....	.....	.....	.....	.....	24	8	.....	.....	.....	.....	.....	.....	.....
Native white, total.....	213,350	124,644	70,503	63.8	61.0	57.4	114,688	98,662	70,285	54,359	41,041	29,467	116.2	129.3	139.3
Native parentage.....	151,145	82,468	44,830	45.2	40.4	38.5	82,435	68,710	47,370	35,088	26,631	18,199	120.0	135.0	146.3
Foreign parentage.....	39,534	26,117	15,466	11.8	12.8	12.6	20,497	19,037	14,371	11,746	8,783	6,683	107.7	122.3	131.4
Mixed parentage.....	22,671	16,059	10,212	6.8	7.9	8.3	11,756	10,915	8,544	7,515	5,627	4,585	107.7	113.7	122.7
Foreign-born white.....	78,090	46,824	22,395	23.4	22.9	18.2	44,057	33,442	30,586	16,238	14,189	8,200	133.5	188.4	172.9
URBAN POPULATION.															
Total.....	117,527	63,260	19,495	100.0	100.0	100.0	61,790	55,737	35,264	27,996	11,382	8,113	110.9	126.0	140.3
White.....	113,639	60,355	18,379	96.6	95.4	94.3	59,618	53,921	33,504	26,851	10,546	7,833	110.6	124.8	134.6
Negro.....	2,631	1,310	330	2.2	2.1	1.7	1,224	1,407	626	684	188	142	87.0	91.5	132.4
Indian, Chinese, Japanese, and all other.....	1,357	1,595	786	1.2	2.5	4.0	948	400	1,134	461	648	138	231.8	246.0	469.6
Native white, total.....	84,629	43,166	14,047	72.0	68.2	72.1	43,842	40,787	23,573	19,593	8,042	6,005	107.5	120.3	133.9
Native parentage.....	58,330	26,644	8,237	49.6	42.1	42.3	30,763	27,568	14,990	11,654	4,827	3,410	111.6	128.6	141.6
Foreign parentage.....	16,370	10,427	5,810	13.9	16.5	29.8	8,191	8,179	5,502	4,925	3,215	2,595	100.1	111.7	123.9
Mixed parentage.....	9,929	6,095	3,844	8.4	9.6	4.0	4,880	5,040	3,081	3,014	2,504	1,828	97.0	102.2	136.8
Foreign-born white.....	28,910	17,189	4,332	24.6	27.2	22.2	15,776	13,134	9,981	7,258	2,504	1,828	120.1	136.8	137.0
RURAL POPULATION.															
Total.....	216,635	141,094	108,436	100.0	100.0	100.0	121,812	94,823	83,310	57,784	60,413	43,023	128.5	144.2	140.4
White.....	177,910	111,113	74,524	82.1	78.8	72.0	99,727	78,183	67,367	43,746	44,684	29,840	127.6	154.0	149.7
Negro.....	5,374	690	1,518	2.5	0.5	1.5	4,635	739	428	271	1,175	343	627.2	157.9	342.6
Indian, Chinese, Japanese, and all other.....	33,351	29,282	27,394	15.4	20.8	26.5	17,450	15,901	15,515	13,767	14,554	12,840	109.7	112.7	113.3
Native white, total.....	128,721	81,478	56,461	59.4	57.7	54.6	70,846	57,875	46,712	34,766	32,990	23,462	122.4	134.4	140.6
Native parentage.....	92,815	55,824	36,593	42.8	39.6	35.4	51,673	41,142	32,380	23,444	21,804	14,789	125.6	138.1	147.4
Foreign parentage.....	23,164	15,690	10,888	10.7	11.1	10.2	12,306	10,858	8,899	6,821	11,105	8,673	113.3	130.0	129.1
Mixed parentage.....	12,742	9,904	5,904	5.9	7.1	4.0	6,867	5,875	5,463	4,501	20,308	20,655	8,980	11,685	6,378
Foreign-born white.....	49,189	29,035	18,068	22.7	21.0	17.5	28,881	20,931	17,488	14,935	188	3.8	412	15	3.6

¹ Ratio not shown where number of females is less than 100.² Comprises 12 Koreans, 10 Filipinos, and 10 Hindus.³ Less than one-tenth of 1 per cent.

TABLE 2.—SCHOOL ATTENDANCE, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

[Per cent not shown where base is less than 100. For statistics of school attendance for Indian population, see supplemental table.]

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.				FOREIGN-BORN WHITE.			NEGRO.				
	Total number.	Attending school.		Native parentage.		Foreign or mixed parentage.		Total num-ber.	Attending school.		Total num-ber.	Attending school.			
		Number.	Per cent.	Total number.	Number.	Per cent.	Total number.		Number.	Per cent.		Number.	Per cent.		
THE STATE: 1920															
5 to 20 years, inclusive.....	105,426	59,496	56.4	49,139	34,106	69.4	22,489	13,606	60.5	19,428	7,047	39.3	1,113	552	49.7
Male.....	53,433	29,872	55.9	25,210	17,129	67.9	11,249	6,731	59.8	9,659	3,561	36.9	614	250	40.7
Female.....	51,933	29,624	57.0	23,020	16,977	70.9	11,240	6,875	61.2	9,789	3,486	35.7	499	303	60.7
5 and 6 years.....	15,902	5,109	32.0	7,399	3,150	42.7	4,333	1,284	29.6	2,018	338	16.7	123	63	51.2
7 to 13 years.....	48,470	38,179	78.8	23,001	21,434	92.8	11,103	9,205	83.7	7,862	4,820	61.3	392	355	90.6
14 and 15 years.....	11,731	8,663	73.8	5,550	4,940	89.0	2,151	1,702	79.1	2,312	1,222	52.0	100	79	79.0
16 and 17 years.....	10,769	4,874	45.3	5,136	2,971	57.8	1,918	877	45.7	2,301	470	20.8	86	41	.....
18 to 20 years.....	18,485	2,671	14.4	7,063	1,602	20.1	2,984	448	15.0	4,935	188	3.8	412	15	3.6
URBAN POPULATION.															
5 and 6 years.....	4,800	1,033	40.3	2,438	1,155	47.4	1,679	582	34.7	563	145	25.8	75	39	.....
7 to 13 years.....	15,088	13,351	88.6	7,583	7,123	93.9	4,658	4,067	87.3	2,522	1,900	75.3	220	203	92.3
14 to 20 years.....	13,398	5,900	44.0	6,607	3,418	51.7	3,195	1,511	47.3	3,265	858	26.3	211	75	35.5
RURAL POPULATION.															
5 and 6 years.....	11,162	3,176	28.5	4,961	2,004	40.4	2,654	702	26.5	1,455	193	13.3	48	24	.....
7 to 13 years.....	33,411	24,828	74.3	15,508	14,311	92.8	6,445	5,228	81.1	5,340	2,920	54.7	172	152	88.4
14 to 20 years.....	27,587	10,308	37.4	12,042	6,095	50.6	3,858	1,516	39.3	6,283	1,031	16.4	387	60	15.5
THE STATE: 1910															
5 to 20 years, inclusive.....	61,634	30,761	49.9	25,249	15,660	62.0	18,052	8,544	53.2	8,013	2,741	34.2	454	254	55.9
Male.....	31,952	15,680	49.1	12,966	7,848	60.5	8,176	4,316	52.8	4,371	1,391	31.8	210	124	59.0
Female.....	29,682	15,081	50.8	12,283	7,812	63.6	7,876	4,228	53.7	3,642	1,350	37.1	244	130	53.3
5 and 6 years.....	9,388	2,008	21.4	4,066	1,078	26.5	2,649	559	21.1	794	161	20.3	71	20	.....
7 to 13 years.....	27,150	10,483	71.8	11,423	9,772	85.5	7,280	5,683	78.1	2,903	1,926	66.4	101	166	89.9
14 and 15 years.....	6,907	4,832	70.0	2,856	2,426	85.0	1,801	1,300	72.2	811	434	53.5	57	41	.....
16 and 17 years.....	6,620	2,900	43.8	2,634	1,555	59.0	1,740	703	40.2	913	158	17.3	57	21
18 to 20 years.....	11,562	1,538													

COMPOSITION AND CHARACTERISTICS.

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TABLE 3.—AGE, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

[For statistics of age for Indian population, see supplemental table.]

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.						FOREIGN-BORN WHITE.			NEGRO.		
	Total.	Male.	Female.	Native parentage.			Foreign or mixed parentage.			Total.	Male.	Female.	Total.	Male.	Female.
				Total.	Male.	Female.	Total.	Male.	Female.						
THE STATE.															
All ages: 1920.....	334,162	183,602	150,560	151,145	82,435	68,710	62,205	32,953	29,952	78,089	44,657	33,442	8,005	5,859	2,146
Under 5 years.....	40,807	20,808	19,000	19,165	9,823	9,842	13,001	7,079	6,822	2,698	1,416	1,282	333	170	163
Under 1 year.....	8,552	4,408	4,144	8,822	2,010	1,812	3,618	1,837	1,781	270	139	131	75	36	39
5 to 9 years.....	37,894	19,143	18,751	17,742	9,011	8,731	9,667	4,814	4,653	5,348	2,765	2,583	303	139	164
10 to 14 years.....	32,673	16,534	16,139	15,700	8,003	7,097	9,008	3,457	3,451	5,733	2,897	2,836	263	114	149
15 to 19 years.....	28,435	14,424	14,011	13,126	6,837	6,289	4,954	2,475	2,479	6,482	3,101	3,381	338	190	148
20 to 44 years.....	130,144	78,024	60,520	60,772	33,341	27,431	19,680	10,059	9,621	41,762	24,545	17,217	5,944	4,702	1,242
45 years and over.....	54,184	33,280	20,904	23,988	14,902	8,086	7,045	4,341	2,704	15,857	9,764	6,093	805	536	269
Age unknown.....	1,025	789	236	652	518	134	50	28	22	219	169	50	19	8	11
18 to 44 years.....	151,205	84,965	66,240	66,164	36,228	29,036	21,704	11,125	10,579	44,832	26,091	18,741	6,147	4,836	1,311
21 years and over.....	187,929	109,361	78,568	82,841	47,402	35,439	25,815	13,925	11,800	55,973	33,582	22,391	6,559	5,075	1,484
Per cent: 1920.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	12.2	11.3	13.3	12.7	11.9	13.6	22.3	21.9	22.8	3.5	3.2	3.8	4.2	2.9	7.6
Under 1 year.....	2.6	2.4	2.8	2.5	2.4	2.6	5.8	5.7	5.0	0.3	0.3	0.4	0.9	0.6	1.8
5 to 9 years.....	11.3	10.4	12.5	11.7	10.9	12.7	15.5	14.9	16.2	6.8	6.2	7.7	3.8	2.4	7.6
10 to 14 years.....	9.8	9.0	10.7	10.4	9.7	11.2	11.1	10.7	11.5	7.3	6.5	8.5	3.3	1.9	6.9
15 to 19 years.....	8.5	7.9	9.3	8.7	8.3	9.2	8.0	7.7	8.3	6.9	10.1	4.2	3.2	6.9	9.0
20 to 44 years.....	41.6	42.8	40.2	40.2	40.4	39.9	31.6	31.2	32.1	53.5	55.0	51.5	74.3	80.3	57.9
45 years and over.....	16.2	18.1	13.9	15.0	18.1	13.2	11.3	13.5	9.0	20.3	21.9	18.2	10.1	9.1	12.5
18 to 44 years.....	45.2	46.3	44.0	43.8	43.9	43.6	34.9	34.5	35.3	57.4	56.4	56.0	70.8	82.5	61.1
21 years and over.....	56.2	59.6	52.2	54.8	57.5	51.6	41.5	43.2	39.7	71.7	75.2	67.0	81.9	86.6	69.2
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	12.1	10.6	14.2	13.5	11.9	15.6	18.9	17.8	20.3	2.3	1.7	3.2	7.8	7.6	8.0
Under 1 year.....	2.5	2.2	2.9	2.9	2.6	3.4	4.5	4.2	4.8	0.2	0.2	0.2	1.6	1.0	1.7
5 to 9 years.....	10.7	9.4	12.5	11.3	10.1	13.0	14.4	13.4	15.5	4.4	3.3	6.3	8.1	7.8	8.4
10 to 14 years.....	8.9	7.0	10.1	9.2	8.2	10.5	11.3	11.0	11.8	4.4	3.5	6.2	6.5	6.2	6.8
15 to 19 years.....	8.5	7.6	9.8	8.3	7.5	9.5	10.3	9.4	11.4	5.9	5.0	7.6	6.8	5.0	8.7
20 to 44 years.....	43.8	46.4	40.2	42.4	44.5	39.7	36.0	36.6	35.2	61.1	64.7	54.4	63.4	52.1	54.8
45 years and over.....	15.7	17.6	13.0	14.8	17.3	11.5	9.0	11.7	5.7	21.7	22.0	17.2	20.8	13.2	20.0
18 to 44 years.....	47.4	49.7	44.1	45.9	47.6	43.6	40.0	40.4	39.6	64.3	67.6	58.0	55.9	53.9	58.2
21 years and over.....	57.7	62.5	51.2	55.9	60.7	49.4	43.0	46.5	38.8	80.6	84.0	74.4	72.5	68.6	65.5
URBAN POPULATION.															
All ages: 1920.....	117,527	61,790	55,737	58,330	30,762	27,568	26,299	13,800	13,219	28,910	15,776	13,134	2,631	1,224	1,407
Under 5 years.....	12,559	6,399	6,220	6,352	3,227	3,125	5,147	2,585	2,502	715	371	344	200	96	104
Under 1 year.....	2,786	1,431	1,355	1,287	688	599	1,347	609	678	73	40	33	48	23	25
5 to 9 years.....	11,620	5,764	5,865	5,876	2,944	2,032	3,887	1,881	2,006	1,601	811	790	177	83	94
10 to 14 years.....	10,202	5,000	5,202	5,122	2,540	2,552	2,984	1,470	1,514	1,883	907	986	148	51	67
15 to 19 years.....	9,400	4,335	5,015	4,671	2,207	2,464	2,240	1,076	1,164	2,283	994	1,269	144	65	79
20 to 44 years.....	52,828	27,937	24,891	26,079	13,715	12,364	9,011	4,348	4,663	15,065	8,812	6,853	1,455	633	822
45 years and over.....	20,100	11,807	8,383	9,689	5,095	3,994	3,001	1,704	1,297	6,648	3,784	2,864	488	288	200
Age unknown.....	719	558	161	541	434	107	29	16	13	125	97	28	19	8	11
Per cent: 1920.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	10.7	10.3	11.2	10.9	10.5	11.3	10.6	10.8	10.4	2.5	2.4	2.6	7.6	7.8	7.4
5 to 9 years.....	9.9	9.3	10.5	10.1	9.6	10.6	14.8	14.4	15.2	5.5	5.1	6.0	6.7	6.8	6.7
10 to 14 years.....	8.7	8.1	9.3	8.8	8.3	9.4	11.3	11.2	11.5	5.5	5.7	7.5	5.6	4.2	6.9
15 to 19 years.....	8.0	7.1	9.0	8.0	7.2	8.9	8.5	8.2	8.8	6.3	6.7	7.5	5.7	5.3	5.6
20 to 44 years.....	44.9	45.2	44.7	44.7	44.6	44.8	34.3	33.2	35.3	54.2	55.9	52.2	55.3	51.7	58.4
45 years and over.....	17.2	19.1	15.0	16.6	18.5	14.5	11.4	13.0	9.8	23.0	24.0	21.8	18.5	23.5	14.2
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	10.6	9.6	11.9	11.3	10.1	12.8	18.7	18.1	19.4	2.2	2.0	2.6	7.3	6.9	7.7
5 to 9 years.....	9.3	8.3	10.6	9.4	8.3	10.7	14.2	13.6	14.7	4.9	4.1	4.5	7.3	6.7	6.7
10 to 14 years.....	8.2	7.5	9.1	8.1	7.2	9.2	11.6	11.8	11.2	5.4	4.5	6.7	5.8	6.4	5.3
15 to 19 years.....	8.2	7.0	0.6	8.0	7.0	9.2	11.0	10.0	12.1	6.0	4.9	7.4	6.8	5.0	8.5
20 to 44 years.....	48.0	49.9	45.6	47.9	49.6	45.6	36.5	36.2	36.7	59.2	62.6	54.5	56.6	54.0	58.9
45 years and over.....	15.3	17.1	13.0	14.6	16.5	12.2	8.0	10.1	5.7	22.1	21.8	22.5	15.7	19.2	12.6
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	13.0	11.9	14.5	13.8	12.8	15.1	24.4	23.4	25.6	4.0	3.6	4.6	2.5	1.8	8.0
5 to 9 years.....	12.1	11.0	13.6	12.8	11.7	14.1	16.1	15.3	17.0	21.0	20.0	19.0	2.3	2.3	9.5
10 to 14 years.....	10.4	9.5	11.5	11.4	10.6	12.4	10.9	10.4	11.6	7.8	6.8	8.8	2.3	1.2	7.0
15 to 19 years.....	8.8	8.2	9.5	9.1	9.0	9.3	7.6	7.3	8.6	6.9	6.1	7.1	3.0	2.7	9.3
20 to 44 years.....	39.8	41.6	37.6	37.4	38.0	36.6	29.7	29.8	29.6	53.1	54.5	51.0	83.5	87.8	56.8
45 years and over.....	15.7	17.6	13.2	15.4	17.8	12.4	11.3	13.8	8.4	18.7	20.7	15.9	5.9	5.4	9.3
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	12.8	11.0	15.3	14.5	12.8	17.0	19.1	17.6	21.0	2.3	1.6	3.8	8.6	8.8	8.5
5 to 9 years.....	11.4	9.9	13.5	12.3	11.0	14.1	14.5	13.3	16.0	4.0	3.0	6.5	9.6	7.7	12.5
10 to 14 years.....	9.1	8.1	10.6	9.7	8.7	11.1	11.2	10.4	12.2	3.9	3.0	5.8	7.7	5.	

POPULATION—ARIZONA.

TABLE 4.—ILLITERACY, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

(Per cent not shown where base is less than 100. For statistics of illiteracy for Indian population, see supplemental table.)

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.						FOREIGN-BORN WHITE.			NEGRO.		
				Native parentage.		Foreign or mixed parentage.									
	Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.	
		Total number.	Percent.		Number.	Percent.		Number.	Percent.		Number.	Percent.		Number.	Percent.
THE STATE: 1920															
10 years and over.....	255,461	39,131	15.3	114,238	1,454	1.3	38,637	1,779	4.6	70,053	19,291	27.5	7,369	338	4.6
Male.....	143,651	19,984	13.9	63,601	764	1.2	20,360	812	4.0	40,476	9,921	24.5	5,580	257	4.6
Female.....	111,810	19,147	17.1	50,637	690	1.4	18,277	967	5.3	29,577	9,370	31.7	1,819	81	4.5
10 to 15 years.....	38,278	4,394	11.5	18,298	96	0.5	7,920	348	4.4	6,844	1,365	19.9	312	2	0.6
Male.....	19,318	2,213	11.5	9,328	47	0.5	3,955	181	4.6	4,697	897	20.5	134	—	—
Female.....	18,960	2,181	11.5	8,970	49	0.5	3,985	167	4.2	3,441	668	19.4	178	2	1.1
16 to 20 years.....	29,254	4,101	14.0	13,099	161	1.2	4,902	272	5.5	7,236	1,889	25.8	498	20	4.0
Male.....	14,972	1,924	12.9	6,871	92	1.3	2,480	112	4.5	3,491	855	24.5	341	17	5.0
Female.....	14,282	2,177	15.2	6,228	69	1.1	2,422	109	6.6	3,745	1,014	27.1	157	3	1.9
21 years and over.....	187,929	30,636	16.3	82,841	1,197	1.4	25,815	1,159	4.5	55,973	16,057	28.7	6,559	316	4.8
Male.....	109,361	15,847	14.5	47,402	625	1.3	13,925	519	3.7	33,682	8,369	24.9	5,075	240	4.7
Female.....	78,568	14,789	18.8	35,439	572	1.6	11,890	640	5.4	22,391	7,688	34.3	1,484	76	5.1
URBAN POPULATION.															
10 years and over.....	93,339	6,072	6.5	46,102	365	0.8	17,265	473	2.7	26,594	4,975	18.7	2,254	75	3.3
Male.....	49,637	2,810	5.7	24,591	161	0.7	8,614	183	2.1	14,594	2,324	15.9	1,045	25	2.4
Female.....	43,652	3,262	7.5	21,511	204	0.9	8,651	200	3.4	12,000	2,651	22.1	1,209	50	4.1
10 to 15 years.....	11,976	281	2.3	5,996	11	0.2	3,455	69	2.0	2,281	191	8.4	173	1	0.6
16 to 20 years.....	9,661	514	5.3	4,756	39	0.8	2,100	54	2.5	2,408	412	16.7	156	1	0.6
21 years and over.....	71,702	5,277	7.4	35,350	315	0.9	11,620	350	3.0	21,845	4,372	20.0	1,925	73	3.8
RURAL POPULATION.															
10 years and over.....	162,122	33,050	20.4	68,136	1,089	1.6	21,372	1,306	6.1	43,459	14,316	32.0	5,115	263	5.1
Male.....	93,964	17,174	18.3	39,010	603	1.5	11,746	629	5.4	25,882	7,597	29.4	4,505	232	5.1
Female.....	68,158	15,885	23.3	29,120	486	1.7	9,626	677	7.0	17,577	6,719	38.2	610	31	5.1
10 to 15 years.....	26,302	4,113	15.6	12,302	85	0.7	4,465	279	6.2	4,563	1,174	25.7	139	1	0.7
16 to 20 years.....	19,593	3,587	18.3	8,343	122	1.5	2,712	218	8.0	4,768	1,457	30.6	342	10	5.6
21 years and over.....	116,227	25,359	21.8	47,491	882	1.9	14,195	800	5.7	34,128	11,655	34.2	4,634	243	5.2
THE STATE: 1910															
10 years and over.....	157,659	32,953	20.9	61,983	1,414	2.3	28,130	2,362	8.4	43,724	13,758	31.5	1,691	122	7.2
Male.....	94,812	18,183	19.2	36,921	692	1.9	15,764	1,204	7.6	29,035	8,605	29.6	892	68	7.6
Female.....	62,847	14,770	23.5	25,062	722	2.0	12,372	1,158	9.4	14,039	5,153	35.1	799	54	6.8
10 to 15 years.....	21,535	3,300	15.3	8,900	134	1.5	5,676	413	7.3	2,464	529	21.5	157	2	1.3
Male.....	11,166	1,650	14.8	4,613	59	1.3	2,956	209	7.1	1,246	254	20.4	77	2	—
Female.....	10,369	1,650	15.0	4,377	75	1.7	2,720	204	7.5	1,218	275	22.6	80	—	—
16 to 20 years.....	18,182	3,846	21.2	6,904	180	2.6	4,322	513	11.9	3,505	1,375	39.2	135	2	1.5
Male.....	9,595	2,070	21.6	3,556	80	2.2	2,145	261	11.7	2,107	604	42.9	51	2	—
Female.....	8,587	1,776	20.7	3,348	100	3.0	2,177	262	12.0	1,398	471	33.7	84	—	—
21 years and over.....	117,942	25,807	21.9	46,089	1,100	2.4	18,138	1,436	7.9	37,755	11,854	31.4	1,399	118	8.4
Male.....	74,051	14,483	19.5	28,752	553	1.9	10,663	744	7.0	25,682	7,447	29.0	764	64	8.4
Female.....	43,891	11,344	25.8	17,337	547	3.2	7,475	692	9.3	12,073	4,407	36.5	635	54	8.5
URBAN POPULATION.															
10 years and over.....	50,667	5,036	9.9	21,133	220	1.0	11,093	611	5.5	15,982	3,576	22.4	1,110	64	5.7
Male.....	28,968	2,494	8.6	12,221	84	0.7	5,863	276	4.7	9,329	1,740	18.7	534	27	5.1
Female.....	21,699	2,542	11.7	8,912	136	1.5	5,230	335	6.4	6,633	1,836	27.7	585	37	6.3
10 to 15 years.....	6,176	337	5.5	2,578	23	0.9	2,285	105	4.6	1,090	167	15.2	94	—	—
16 to 20 years.....	5,408	541	10.0	2,159	33	1.5	1,797	137	7.6	1,211	315	26.0	90	—	—
21 years and over.....	39,088	4,158	10.6	16,396	164	1.0	7,011	360	5.3	13,652	3,094	22.7	935	64	6.3
RURAL POPULATION.															
10 years and over.....	106,992	27,917	26.1	40,850	1,104	2.0	17,043	1,751	10.3	27,762	10,182	36.7	572	58	10.1
Male.....	65,844	15,680	23.8	24,700	608	2.5	9,901	923	9.4	19,706	6,365	34.8	358	41	11.5
Female.....	41,148	12,223	29.7	16,150	588	3.6	7,142	823	11.5	8,056	3,317	41.2	214	17	7.9
10 to 15 years.....	15,350	2,983	10.3	6,412	111	1.7	3,391	308	9.1	1,305	362	26.5	63	2	—
16 to 20 years.....	12,774	3,305	25.9	4,745	147	3.1	2,525	376	14.9	2,294	1,060	46.2	45	2	—
21 years and over.....	78,859	21,649	27.5	29,693	936	3.2	11,127	1,067	9.6	24,103	8,760	36.3	404	54	11.6

COMPOSITION AND CHARACTERISTICS.

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TABLE 5.—POPULATION 21 YEARS OF AGE AND OVER, BY SEX, CLASS OF POPULATION, AND CITIZENSHIP, FOR THE STATE: 1920 AND 1910.

CLASS OF POPULATION AND CITIZENSHIP.	POPULATION 21 YEARS OF AGE AND OVER.			PER CENT DISTRIBUTION.			CLASS OF POPULATION AND CITIZENSHIP.	POPULATION 21 YEARS OF AGE AND OVER.			PER CENT DISTRIBUTION.			
	Male.		Female: 1920	Male.		Fe- male: 1920		Male.		Female: 1920	Male.		Fe- male: 1920	
	1920	1910		1920	1910			1920	1910		1920	1910		
Total.....	109,361	74,051	78,568	100.0	100.0	100.0	Native white.....	61,327	39,415	47,329	56.1	53.2	60.2	
White.....	94,909	65,097	69,720	86.8	87.9	88.7	Native parentage.....	47,402	28,752	35,439	43.3	38.8	45.1	
Negro.....	5,075	704	1,484	4.6	1.0	1.9	Foreign parentage.....	8,558	6,980	7,088	7.8	9.4	9.0	
Indian.....	8,215	6,701	7,179	7.5	9.0	9.1	Mixed parentage.....	5,367	3,683	4,802	4.9	5.0	6.1	
Chinese.....	836	1,166	75	0.8	1.6	0.1	Foreign-born white.....	33,582	25,682	22,391	30.7	34.7	28.5	
Japanese.....	307	323	105	0.3	0.4	0.1	Naturalized.....	5,986	5,912	4,722	5.5	8.0	6.0	
All other.....	19	.....	5	(1)	.....	(1)	Having first papers.....	1,801	1,113	79	1.6	1.5	0.1
							Alien.....	24,147	14,574	16,638	22.1	19.7	21.2	
							Unknown.....	1,643	4,083	952	1.5	5.5	1.2	

¹ Less than one-tenth of 1 per cent.

TABLE 6.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR THE STATE AND PRINCIPAL CITIES: 1920.

COUNTRY OF BIRTH.	THE STATE.		PHOENIX.		TUCSON.		COUNTRY OF BIRTH.	THE STATE.		PHOENIX.		TUCSON.	
	Num- ber.	Per cent distribu- tion.	Num- ber.	Per cent distribu- tion.	Num- ber.	Per cent distribu- tion.		Num- ber.	Per cent distribu- tion.	Num- ber.	Per cent distribu- tion.	Num- ber.	Per cent distribu- tion.
All countries.....	78,099	100.0	4,045	100.0	5,181	100.0	Jugo-Slavia.....	1,167	1.5	23	0.6	16	0.3
Austria.....	486	0.6	46	1.1	25	0.5	Mexico.....	60,325	77.2	2,323	57.4	4,261	82.2
Canada.....	1,962	2.5	300	7.4	155	3.0	Norway.....	337	0.4	30	0.7	24	0.5
Denmark.....	398	0.5	39	1.0	12	0.2	Poland.....	261	0.3	31	0.8	22	0.4
England.....	2,882	3.7	215	5.3	133	2.6	Russia.....	916	1.0	87	2.2	67	1.3
Finland.....	407	0.5	15	0.4	4	0.1	Scotland.....	595	0.8	67	1.7	33	0.6
France.....	394	0.5	33	0.8	35	0.7	Spain.....	1,013	1.3	19	0.5	27	0.5
Germany.....	1,516	1.0	249	6.2	116	2.2	Sweden.....	859	1.1	100	2.5	35	0.7
Greece.....	329	0.4	68	1.7	49	0.9	Switzerland.....	293	0.4	36	0.9	8	0.2
Hungary.....	210	0.3	17	0.4	9	0.2	Syria.....	327	0.4	26	0.6	18	0.3
Ireland.....	1,206	1.5	140	3.5	56	1.1	Wales.....	192	0.2	24	0.6	9	0.2
Italy.....	1,281	1.6	66	1.6	20	0.4	All other countries.....	863	1.1	91	2.2	47	0.9

TABLE 7.—INDIANS, CHINESE, AND JAPANESE, FOR COUNTIES AND PHOENIX: 1920, 1910, AND 1900.

COUNTY OR CITY.	INDIAN.			CHINESE.			JAPANESE.			INDIAN.			CHINESE.			JAPANESE.			
	1920	1910	1900	1920	1910	1900	1920	1910	1900	1920	1910	1900	1920	1910	1900	1920	1910	1900	
COUNTIES.																			
The state.....	32,989	29,201	26,480	1,137	1,305	1,419	550	371	281	714	541	1,237	20	52	50	4	2	67	
Apache.....	7,850	6,131	5,540	47	1	.....	7,752	5,752	5,099	23	13	41	78	38	16	.....	.....	.....
Cochise.....	85	26	11	50	93	111	10	7	1	4,270	3,495	2,562	284	285	254	20	41	9	
Coconino.....	2,969	2,788	1,206	33	46	86	15	10	100	3,102	3,139	2,999	50	30	54	9	9	2	
Gila.....	1,647	2,508	729	72	128	49	32	19	5	Santa Cruz.....	77	6	4	41	55	44	1	1
Graham.....	601	450	34	2	141	140	5	3	Yavapai.....	420	479	268	168	227	394	33	72	65
Greenlee.....	1	1	82	2	141	140	303	135	13	Yuma.....	859	787	683	52	45	50	45	32
Maricopa.....	2,642	3,099	3,084	204	189	185	Phoenix.....	105	43	3	130	110	93	27	41	7

¹ Includes 3,024 Indians on San Carlos Indian Reservation, in Gila and Graham Counties, not returned by counties in 1900.

² Includes 2 Chinese on San Carlos Indian Reservation, in Gila and Graham Counties, not returned by counties in 1900.

TABLE 8.—AGE, FOR CITIES OF 10,000 OR MORE: 1920.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		
	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	
Phoenix.....	15,175	13,878	12,191	11,480	2,284	1,761	534	541	Tucson.....	10,354	9,938	7,365	6,931	2,536	2,645	167	179
Under 5 years.....	1,270	1,257	1,187	1,176	38	27	35	37	Under 5 years.....	1,072	1,037	994	943	46	39	10	11
Under 1 year.....	298	205	278	272	7	6	11	12	Under 1 year.....	262	216	249	197	6	5	2	1
5 to 9 years.....	1,276	1,266	1,173	1,143	66	76	30	33	5 to 9 years.....	1,025	1,001	859	844	137	123	10	14
10 to 14 years.....	1,079	1,118	979	985	77	93	20	36	10 to 14 years.....	882	944	685	711	176	206	7	12
15 to 19 years.....	1,119	1,193	957	1,011	116	135	30	30	15 to 19 years.....	856	893	610	620	220	240	10	13
20 to 44 years.....	6,941	6,516	5,340	5,248	1,227	912	278	303	20 to 44 years.....	4,512	4,370	3,129	2,922	1,195	1,273	84	100
45 years and over.....	3,456	2,512	2,524	1,898	757	518	135	96	45 years and over.....	1,898	1,685	1,081	878	761	761	46	28
All unknown.....	34	16	31	4	14	3	.....	.....	All unknown.....	9	8	7	4	1	3	.....	1
18 to 44 years.....	7,414	7,055	5,734	5,688	1,279	985	299	325	18 to 44 years.....	4,867	4,760	3,374	3,182	1,296	1,394	87	107
21 years and over....	10,225	8,780	7,728	6,947	1,057	1,391	408	397	21 years and over....	6,357	5,858	4,101	3,687	1,916	1,976	128	128

POPULATION—ARIZONA.

TABLE 9.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR COUNTIES: 1920.

[Per cent not shown where base is less than 100. For statistics of Indian population, by counties, see supplemental table.]

SUBJECT.	THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham. ¹	Greenlee. ¹
COLOR OR RACE, NATIVITY, AND SEX.							
Total population.....	334,162	13,196	46,465	9,982	25,678	10,148	15,362
Male.....	183,602	7,116	25,817	5,289	14,296	5,351	8,124
Female.....	150,560	6,080	20,648	4,693	11,382	4,797	7,238
Native white.....	213,350	4,720	31,416	5,301	16,594	8,756	8,909
Male.....	114,688	2,642	17,174	2,821	8,924	4,564	4,612
Female.....	98,662	2,078	14,242	2,480	7,670	4,182	4,297
Native white—Native parentage.....	151,145	4,226	20,673	3,989	11,198	7,229	3,989
Native white—Foreign parentage.....	39,534	236	7,113	805	3,749	668	3,937
Native white—Mixed parentage.....	22,071	258	3,030	507	1,647	859	983
Foreign-born white.....	78,099	565	13,354	1,611	7,014	701	6,310
Male.....	44,657	449	7,341	917	4,296	411	3,411
Female.....	33,442	116	6,013	694	2,718	200	2,899
Negro.....	8,005	14	1,538	53	319	88	60
Male.....	5,859	10	1,178	25	151	54	28
Female.....	2,146	4	360	28	168	34	32
Indian, Chinese, Japanese, and all other (see Tables 1 and 7).....	34,708	7,897	167	3,017	1,751	603	83
Per cent native white.....	63.8	35.8	67.6	53.1	64.6	86.3	58.0
Per cent foreign-born white.....	23.4	4.3	28.7	16.1	27.3	6.9	41.1
Per cent Negro.....	2.4	0.1	3.3	0.5	1.2	0.9	0.4
1910: Total population.							
Native white.....	204,354	9,196	34,591	8,130	16,348	23,999	—
Foreign-born white.....	124,644	2,866	22,800	3,539	9,590	15,140	—
Negro.....	40,824	190	11,127	1,712	3,877	8,151	—
Per cent native white.....	2,009	8	478	35	226	112	—
Per cent foreign-born white.....	61.0	31.2	66.1	43.5	58.7	63.1	—
Per cent Negro.....	22.9	2.1	32.2	21.1	23.7	34.0	—
1.0	0.1	1.4	0.4	1.4	0.5	—	—
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.							
Total under 7 years of age.....	56,760	2,772	7,752	1,909	4,545	2,140	3,280
Total 7 to 13 years, inclusive.....	48,479	2,486	6,581	1,511	3,291	1,970	2,609
Number attending school.....	38,179	974	5,644	919	2,800	1,816	2,324
Per cent attending school.....	78.8	39.2	35.8	60.8	85.1	92.2	89.1
Total 14 and 15 years.....	11,731	605	1,500	352	746	535	575
Number attending school.....	8,663	224	1,245	199	600	472	474
Per cent attending school.....	73.8	37.0	82.5	56.5	80.4	88.2	82.4
Total 16 and 17 years.....	10,769	484	1,403	311	645	463	533
Number attending school.....	4,874	124	654	86	301	250	261
Per cent attending school.....	45.3	25.6	46.6	27.7	46.7	54.0	49.0
Total 18 to 20 years, inclusive.....	18,485	908	2,802	536	1,281	548	758
Number attending school.....	2,671	90	390	70	146	107	127
Per cent attending school.....	14.4	9.9	13.9	13.1	11.4	19.5	16.8
Males 21 years of age and over.....	109,361	3,396	15,536	3,052	9,153	2,439	4,276
Native white—Native parentage.....	47,402	1,173	6,952	1,321	3,814	1,481	1,212
Native white—Foreign or mixed parentage.....	13,925	199	1,990	348	1,164	445	425
Foreign-born white.....	33,582	359	5,453	609	3,671	331	2,556
Naturalized.....	5,986	65	1,272	138	737	98	223
First papers.....	1,801	13	460	44	278	10	97
Alien.....	24,147	260	3,518	446	2,452	209	2,188
Unknown.....	1,648	21	203	71	104	14	48
Negro.....	5,075	6	1,050	16	99	26	21
Indian, Chinese, Japanese, and all other.....	9,377	1,659	91	668	505	156	62
Females 21 years of age and over.....	78,568	2,545	10,882	2,311	6,017	2,053	3,331
Native white—Native parentage.....	35,439	789	4,793	909	2,720	1,263	910
Native white—Foreign or mixed parentage.....	11,890	151	1,707	297	926	405	433
Foreign-born white.....	22,391	96	4,007	463	1,858	236	1,968
Naturalized.....	4,722	37	991	93	429	96	193
First papers.....	79	—	13	2	8	1	7
Alien.....	16,638	46	2,973	326	1,377	123	1,745
Unknown.....	552	13	120	42	44	18	23
Negro.....	1,484	3	268	22	101	13	15
Indian, Chinese, Japanese, and all other.....	7,364	1,506	17	560	412	136	5
Males 18 to 44 years, inclusive.....	84,965	2,758	12,744	2,278	7,398	1,764	3,375
Females 18 to 44 years, inclusive.....	66,240	2,193	9,202	1,977	5,208	1,653	3,024
ILLITERACY.							
Total 10 years of age and over.....	255,461	9,271	35,750	7,350	19,655	7,143	10,877
Number illiterate.....	39,131	5,243	3,282	2,163	2,370	475	1,628
Per cent illiterate.....	15.3	56.6	9.2	29.4	12.1	6.6	15.0
Per cent illiterate in 1910.....	20.9	63.1	0.2	38.4	10.5	28.2	—
Native white.....	152,875	3,345	22,077	3,850	11,648	5,968	5,017
Number illiterate.....	3,233	382	229	109	128	171	110
Per cent illiterate.....	2.1	11.4	1.0	2.8	1.1	2.9	2.2
Foreign-born white.....	70,053	546	12,076	1,426	6,413	661	5,741
Number illiterate.....	10,291	149	2,946	456	1,491	220	1,505
Per cent illiterate.....	27.5	27.3	24.4	32.0	23.2	33.3	26.2
Negro.....	7,369	12	1,453	46	249	69	48
Number illiterate.....	338	1	29	2	38	11	3
Per cent illiterate.....	4.6	—	2.0	—	15.3	—	—
Total 16 to 20 years, inclusive.....	29,254	1,392	4,205	847	1,926	1,011	1,291
Number illiterate.....	4,101	812	337	306	202	47	88
Per cent illiterate.....	14.0	58.3	8.0	36.1	10.5	4.6	6.8
Illiterate males 21 years of age and over.....	15,847	1,733	1,338	769	1,076	234	685
Per cent of all males 21 years of age and over.....	14.5	51.0	8.6	25.2	11.8	9.6	16.0
Native white.....	1,144	181	68	42	39	78	38
Foreign-born white.....	8,369	87	1,204	210	761	112	639
Number illiterate.....	240	—	20	—	18	6	1
Negro.....	14,789	1,611	1,466	717	958	174	821
Number illiterate.....	18.8	63.3	13.5	31.0	15.9	8.5	24.6
Per cent of all females 21 years of age and over.....	1,212	159	77	48	57	60	48
Native white.....	7,688	36	1,375	180	557	91	768
Foreign-born white.....	76	—	6	2	18	3	2
DWELLINGS AND FAMILIES.							
Dwellings, number.....	73,673	2,654	10,264	2,409	5,892	2,092	2,996
Families, number.....	80,208	2,841	11,012	2,533	6,458	2,128	3,521

¹ Part of Graham County taken to form Greenlee since 1910.

COMPOSITION AND CHARACTERISTICS.

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TABLE 9.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR COUNTIES: 1920—Continued.

[Per cent not shown where base is less than 100. For statistics of Indian population, by counties, see supplemental table.]

SUBJECT.	Maricopa.	Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.
COLOR OR RACE, NATIVITY, AND SEX.								
Total population.....	89,576	6,259	16,077	34,680	16,130	12,689	24,016	14,904
Male.....	47,919	3,063	8,554	18,218	9,142	7,722	14,353	8,633
Female.....	41,657	2,196	7,523	16,462	6,988	4,067	9,663	6,266
Native white.....	65,875	3,793	7,353	21,082	8,267	5,065	16,512	9,707
Male.....	34,591	2,179	3,993	11,059	4,613	2,076	9,339	5,501
Female.....	31,284	1,614	3,360	10,023	3,654	2,389	7,173	4,206
Native white—Native parentage.....	51,724	2,844	6,252	12,800	5,000	2,424	11,594	7,203
Native white—Foreign parentage.....	8,507	497	551	4,976	2,063	1,687	3,168	1,579
Native white—Mixed parentage.....	5,644	452	550	3,306	1,204	954	1,752	925
Foreign-born white.....	19,095	726	819	8,604	4,605	4,235	6,601	3,850
Male.....	10,858	489	478	4,502	2,777	1,935	4,448	2,345
Female.....	8,237	237	341	4,102	1,828	2,300	2,163	1,514
Negro.....	1,436	2	46	419	97	3,209	282	382
Male.....	722	1	22	210	59	3,031	151	217
Female.....	714	1	24	200	38	238	131	165
Indian, Chinese, Japanese, and all other (see Tables 1 and 7).....	3,170	738	7,859	4,575	3,161	120	621	956
Per cent native white.....	73.5	72.1	45.7	60.8	51.3	39.9	68.8	65.1
Per cent foreign-born white.....	21.3	13.8	5.1	24.8	28.5	33.4	27.5	26.9
Per cent Negro.....	1.6	(1)	0.3	1.2	0.6	25.8	1.2	2.6
1910: Total population.....								
Native white.....	34,488	3,773	11,471	22,818	9,045	6,766	15,998	7,733
Foreign-born white.....	25,504	2,479	4,798	13,323	4,158	3,805	11,187	5,335
Negro.....	5,032	689	832	5,379	1,661	2,865	3,883	1,426
Per cent native white.....	74.1	10	38	295	48	34	148	108
Per cent foreign-born white.....	14.6	18.3	7.3	23.6	46.0	50.2	60.9	69.0
Per cent Negro.....	1.4	0.3	0.3	1.3	0.5	0.5	0.9	1.4
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	14,400	737	3,302	5,467	2,868	1,786	3,406	2,405
Total 7 to 13 years, inclusive.....	13,214	659	2,553	4,897	2,310	1,533	2,697	2,168
Number attending school.....	10,558	600	1,479	3,756	1,993	1,289	2,382	1,845
Per cent attending school.....	79.9	91.0	57.9	76.7	86.3	84.1	88.3	75.9
Total 14 and 15 years.....	3,280	133	688	1,276	514	337	630	512
Number attending school.....	2,445	108	436	915	395	202	523	365
Per cent attending school.....	74.5	81.2	63.4	71.7	70.8	77.7	81.8	67.3
Total 16 and 17 years.....	3,203	138	533	1,175	487	365	536	488
Number attending school.....	1,494	94	245	533	219	153	271	180
Per cent attending school.....	46.6	68.1	46.0	45.4	45.0	41.9	50.6	38.7
Total 18 to 20 years, inclusive.....	4,976	187	897	1,971	905	704	1,157	855
Number attending school.....	786	28	162	308	115	39	139	104
Per cent attending school.....	15.8	15.0	18.1	18.7	12.7	5.5	12.0	12.2
Males 21 years of age and over.....	28,046	2,117	4,491	10,787	5,470	5,364	9,987	5,247
Native white—Native parentage.....	15,274	1,059	1,784	4,207	1,573	817	4,310	2,325
Native white—Foreign or mixed parentage.....	3,675	384	404	1,702	639	404	1,444	712
Foreign-born white.....	7,684	430	304	3,344	2,188	1,254	3,793	1,706
Naturalized.....	1,155	159	80	612	234	148	820	245
First papers.....	204	46	17	134	84	45	278	31
Alien.....	5,553	163	237	2,453	1,707	1,040	2,530	1,331
Unknown.....	612	62	30	145	53	21	105	99
Negro.....	529	1	16	165	45	2,836	117	143
Indian, Chinese, Japanese, and all other.....	1,084	243	1,923	1,279	975	53	323	356
Females 21 years of age and over.....	22,452	1,288	3,613	9,107	3,576	2,000	5,504	3,199
Native white—Native parentage.....	12,829	654	1,277	3,306	1,027	545	2,852	1,605
Native white—Foreign or mixed parentage.....	3,296	246	348	1,701	538	388	992	492
Foreign-born white.....	5,127	183	245	2,934	1,243	1,488	1,637	916
Naturalized.....	993	74	85	700	173	254	446	149
First papers.....	20	1	1	8	2	4	11	1
Alien.....	3,764	84	151	2,067	1,056	1,207	902	727
Unknown.....	350	24	8	150	12	23	88	39
Negro.....	491	1	15	147	27	189	99	93
Indian, Chinese, Japanese, and all other.....	709	204	1,728	1,019	741	20	114	193
Males 18 to 44 years, inclusive.....	21,212	1,269	3,453	8,166	4,257	4,775	7,512	4,004
Females 18 to 44 years, inclusive.....	18,772	962	2,969	7,334	3,017	2,311	4,731	2,797
ILLITERACY.								
Total 10 years of age and over.....	69,205	4,253	11,576	27,016	12,174	10,213	19,301	11,527
Number illiterate.....	7,670	457	4,467	4,367	2,363	1,293	1,626	1,728
Per cent illiterate.....	11.1	10.7	38.6	16.2	19.4	12.7	8.4	15.0
Per cent illiterate in 1910.....	11.5	14.2	41.1	23.2	28.9	32.1	8.1	14.2
Native white.....	49,069	2,054	5,341	15,331	5,594	3,180	12,478	7,074
Number illiterate.....	795	11	208	468	152	133	162	177
Per cent illiterate.....	1.6	0.4	3.9	3.1	2.7	4.2	1.3	2.5
Foreign-born white.....	16,573	681	743	7,897	4,114	3,717	6,090	3,875
Number illiterate.....	5,962	109	210	1,776	1,106	941	1,255	1,165
Per cent illiterate.....	36.0	16.0	28.3	22.5	26.9	25.3	20.6	34.5
Negro.....	1,234	2	38	365	80	8,224	243	306
Number illiterate.....	44	—	—	14	5	164	9	18
Per cent illiterate.....	3.6	—	—	3.8	—	5.1	3.7	5.9
Total 16 to 20 years, inclusive.....	8,184	325	1,430	3,146	1,392	1,009	1,693	1,343
Number illiterate.....	856	16	432	416	162	137	124	106
Per cent illiterate.....	10.5	4.9	30.2	13.2	11.6	12.8	7.3	12.4
Illiterate males 21 years of age and over.....	3,056	225	1,674	1,724	1,090	604	863	787
Per cent of all males 21 years of age and over.....	10.9	10.6	37.3	16.0	19.9	11.3	8.5	15.0
Native white.....	262	4	84	135	50	38	61	64
Foreign-born white.....	2,359	53	97	753	519	390	672	523
Negro.....	18	—	—	7	3	150	5	12
Illiterate females 21 years of age and over.....	2,713	206	1,664	1,796	1,023	471	592	577
Per cent of all females 21 years of age and over.....	12.1	16.0	46.1	19.7	28.6	18.1	10.6	18.0
Native white.....	257	4	98	172	61	43	76	52
Foreign-born white.....	2,044	41	85	804	469	407	446	385
Negro.....	23	—	—	7	2	4	4	5
DWELLINGS AND FAMILIES.								
Dwellings, number.....	18,827	1,690	2,664	7,693	3,718	2,083	6,057	3,634
Families, number.....	20,934	1,801	3,865	8,277	3,950	2,305	6,719	3,864

¹ Less than one-tenth of 1 per cent.

POPULATION—ARIZONA.

TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES OF 10,000 OR MORE: 1920.

SUBJECT.	Phoenix.	Tucson.	SUBJECT.	Phoenix.	Tucson.	
COLOR OR RACE, NATIVITY, AND SEX.						
Total population.....	29,053	20,292	AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP—Continued.			
Male.....	15,175	10,354	Females 21 years of age and over.....	8,780	5,858	
Female.....	13,878	9,938	Native white—Native parentage.....	5,343	2,454	
Native white.....	23,671	14,296	Native white—Foreign or mixed parentage.....	1,604	1,213	
Male.....	12,191	7,365	Foreign-born white.....	1,391	1,976	
Female.....	11,480	6,931	Naturalized.....	521	509	
Native white—Native parentage.....	18,191	8,747	First papers.....	10	7	
Native white—Foreign parentage.....	3,063	3,238	Alien.....	736	1,339	
Native white—Mixed parentage.....	2,417	2,311	Unknown.....	124	121	
Foreign-born white.....	4,045	5,181	Negro.....	397	128	
Male.....	2,284	2,536	Males 18 to 44 years, inclusive.....	7,414	4,867	
Female.....	1,761	2,045	Females 18 to 44 years, inclusive.....	7,055	4,760	
Negro.....	1,075	346	ILLITERACY.			
Male.....	534	167	Total 10 years of age and over.....	23,984	16,157	
Female.....	541	179	Number illiterate.....	810	1,175	
Indian, Chinese, Japanese, and all other (see Table 7).....	262	409	Per cent illiterate.....	3.4	7.3	
Per cent native white.....	81.5	70.5	Per cent illiterate in 1910.....	6.0	12.7	
Per cent foreign-born white.....	13.9	25.5	Native white.....	18,987	10,656	
Per cent Negro.....	3.7	1.7	Number illiterate.....	131	205	
1910: Total population.			Per cent illiterate.....	0.7	1.9	
Native white.....	8,983	8,903	Foreign-born white.....	3,838	4,836	
Foreign-born white.....	1,629	3,086	Number illiterate.....	637	878	
Negro.....	328	222	Per cent illiterate.....	16.6	18.2	
Per cent native white.....	80.7	67.5	Negro.....	940	301	
Per cent foreign-born white.....	14.6	23.4	Number illiterate.....	25	8	
Per cent Negro.....	2.9	1.7	Per cent illiterate.....	2.7	2.7	
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.			Total 16 to 20 years, inclusive.....	2,381	1,784	
Total under 7 years of age.....	3,573	2,938	Number illiterate.....	54	78	
Total 7 to 13 years, inclusive.....	3,263	2,644	Per cent illiterate.....	2.3	4.4	
Number attending school.....	3,060	2,234	Illiterate males 21 years of age and over.....	368	424	
Per cent attending school.....	93.5	84.5	Per cent of all males 21 years of age and over.....	3.6	6.7	
Total 14 and 15 years.....	831	711	Native white.....	46	58	
Number attending school.....	712	564	Foreign-born white.....	303	327	
Per cent attending school.....	55.7	79.3	Negro.....	8	2	
Total 16 and 17 years.....	899	672	Illiterate females 21 years of age and over.....	350	608	
Number attending school.....	477	310	Per cent of all females 21 years of age and over.....	4.0	10.4	
Per cent attending school.....	53.1	47.5	Native white.....	58	103	
Total 18 to 20 years, inclusive.....	1,482	1,112	Foreign-born white.....	271	464	
Number attending school.....	271	234	Negro.....	16	6	
Per cent attending school.....	18.3	21.0	DWELLINGS AND FAMILIES.			
Males 21 years of age and over.....	10,225	6,357	Dwellings, number.....	5,867	4,499	
Native white—Native parentage.....	6,117	2,919	Families, number.....	7,354	4,834	
Native white—Foreign or mixed parentage.....	1,611	1,182				
Foreign-born white.....	1,957	1,916				
Naturalized.....	621	417				
First papers.....	127	93				
Alien.....	1,037	1,298				
Unknown.....	172	108				
Negro.....	408	128				

COMPOSITION AND CHARACTERISTICS.

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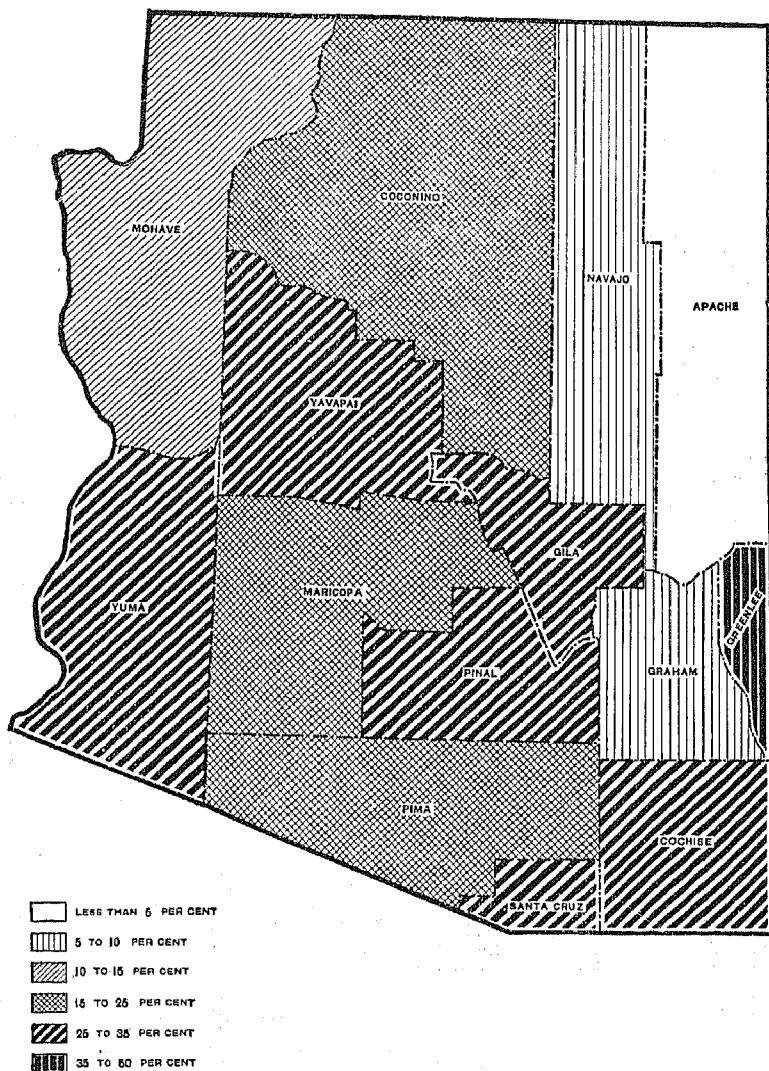
TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR PLACES OF 2,500 TO 10,000: 1920.

SUBJECT.	Bisbee.	Clifton.	Douglas.	Flagstaff.	Glen-dale.	Globe.	Jerome.	Mesa.	Miami.	No-gales.	Prescott.	Winslow.	Yuma.
COLOR OR RACE, NATIVITY, AND SEX.													
Total population.....	9,205	4,163	9,916	3,186	2,737	7,044	4,030	3,036	6,689	5,199	5,010	3,730	4,237
Male.....	5,012	2,167	4,981	1,665	1,372	3,814	2,525	1,548	3,843	2,306	2,622	2,068	2,338
Female.....	4,193	1,996	4,935	1,521	1,365	3,230	1,505	1,488	2,840	2,893	2,388	1,662	1,899
Native white—Native parentage.....	3,520	1,462	4,764	1,891	1,779	3,698	1,063	2,074	2,218	1,120	3,142	2,479	2,182
Native white—Foreign or mixed parentage.....	2,343	1,431	2,100	563	469	1,636	996	481	1,563	1,261	904	503	960
Foreign-born white.....	3,266	1,180	2,858	677	467	1,451	1,892	393	2,859	2,570	627	528	910
Negro.....	76	35	171	33	4	216	44	69	47	218	167	37	93
Indian, Chinese, Japanese, and all other.....	49	23	22	18	43	35	19	2	30	110	183	92	
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.													
Total under 7 years of age.....	1,462	787	1,640	545	512	1,082	568	447	1,145	855	555	610	640
Total 7 to 13 years, inclusive.....	1,253	718	1,470	433	449	878	423	477	766	796	512	411	575
Number attending school.....	899	710	1,368	419	410	789	347	407	656	698	474	390	500
Total 14 and 15 years.....	278	180	348	99	98	211	75	110	167	200	159	116	154
Number attending school.....	221	167	306	92	82	175	61	94	114	107	138	99	117
Total 16 to 20 years, inclusive.....	748	367	821	251	246	522	242	311	484	497	365	283	359
Number attending school.....	165	166	239	55	78	143	50	99	65	130	134	78	88
Males 21 years of age and over.....	8,117	1,153	2,881	1,004	771	2,555	1,877	902	2,667	1,247	1,837	1,360	1,459
Native white—Native parentage.....	4,322	429	1,477	570	475	1,227	426	584	886	387	1,024	897	686
Native white—Foreign or mixed parentage.....	412	166	320	142	91	385	185	126	305	177	327	132	298
Foreign-born white.....	1,350	513	1,015	273	194	553	1,213	161	1,455	636	328	219	371
Naturalized.....	886	76	192	50	29	332	166	15	197	67	181	39	77
Negro.....	33	10	58	9	2	55	24	18	19	27	64	14	46
Females 21 years of age and over.....	2,347	658	2,756	854	661	1,796	845	789	1,460	1,604	1,582	950	1,050
Native white—Native parentage.....	871	353	1,349	503	425	971	271	504	515	290	977	612	486
Native white—Foreign or mixed parentage.....	420	174	394	127	94	317	172	145	232	182	299	130	258
Foreign-born white.....	1,021	418	940	208	139	442	385	123	689	990	239	102	268
Naturalized.....	310	73	173	43	25	196	87	19	93	162	146	52	63
Negro.....	35	10	69	14	1	62	16	13	24	138	62	12	29
ILLITERACY.													
Total 10 years of age and over	7,192	3,060	7,625	2,433	2,030	5,562	3,252	2,392	5,175	3,994	4,236	2,933	3,814
Number illiterate.....	427	311	610	257	134	209	181	136	833	233	103	230	393
Native white 10 years of age and over.....	4,151	1,859	4,892	1,800	1,601	3,959	1,399	1,066	2,663	1,525	3,386	2,276	2,347
Number illiterate.....	34	39	35	77	22	28	18	27	41	14	26	96	46
Foreign-born white 10 years of age and over.....	2,968	1,135	2,572	501	410	1,104	1,774	358	2,565	2,258	602	476	807
Number illiterate.....	392	263	560	206	112	164	161	107	789	208	43	122	333
Illiterate males 21 years of age and over.....	125	139	210	139	56	100	90	56	399	60	53	94	164
Illiterate females 21 years of age and over	246	163	316	105	55	84	71	50	306	126	42	122	156
DWELLINGS AND FAMILIES.													
Dwellings, number.....	1,872	917	2,392	740	580	1,621	609	592	1,242	1,130	1,230	871	796
Families, number.....	2,170	970	2,553	819	660	1,754	853	695	1,550	1,287	1,499	934	902

TABLE 12.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR COUNTIES AND FOR CITIES OF 10,000 OR MORE: 1920.

COUNTY OR CITY.	Total foreign-born white.	COUNTRY OF BIRTH.														All other countries.						
		Austria.	Canada.	Denmark.	England.	Finland.	France.	Germany.	Ireland.	Italy.	Jugo-Slavia.	Mexico.	Norway.	Poland.	Russia.	Scotland.	Spain.	Sweden.	Switzerland.	Syria.		
COUNTIES.																						
The state.....	78,009	486	1,982	398	2,882	407	394	1,516	329	1,206	1,261	1,167	60,325	337	261	816	595	1,013	859	293	327	1,265
Apache.....	565	2	15	6	13	17	12	17	2	10	2	1	393	6	4	20	3	3	22	3	1	13
Cochise.....	13,354	125	346	51	912	155	59	261	55	274	364	9,569	68	66	109	127	80	193	42	70	228	
Coconino.....	1,611	21	74	8	31	7	20	49	8	32	6	1	1,167	14	6	11	12	72	44	3	5	20
Gila.....	7,014	60	163	25	567	60	34	110	37	140	248	373	4,472	28	27	34	63	212	88	22	65	186
Graham.....	701	1	14	15	54	2	3	17	.....	8	1	.....	535	4	2	6	3	1	11	4	1	19
Greenlee.....	6,310	5	68	7	194	9	9	40	40	18	237	6	5,384	8	2	7	69	197	10	3	18	19
Maricopa.....	19,095	107	586	158	405	25	86	437	105	233	55	15,311	92	46	460	126	88	203	101	29	317	
Mohave.....	726	15	71	12	62	13	9	29	2	44	24	9	315	10	4	2	17	15	37	12	.....	24
Navajo.....	819	2	39	13	42	42	6	29	4	14	10	.....	585	2	4	8	13	5	14	5	6	18
Pima.....	8,604	31	197	24	200	7	47	174	52	94	41	20	7,264	47	25	92	54	29	66	16	27	97
Pinal.....	4,605	10	50	7	72	75	23	65	2	33	31	32	3,011	10	4	8	27	90	25	7	81	42
Santa Cruz.....	4,235	7	39	9	26	.....	24	29	25	40	3	3	3,937	3	2	10	4	31	5	10	24	
Yavapai.....	6,601	83	243	41	249	30	51	193	30	216	308	297	4,077	35	65	43	65	177	101	58	11	228
Yuma.....	3,859	17	57	22	55	7	11	66	7	50	25	6	3,405	10	4	6	12	13	40	13	3	30
CITIES.																						
Phoenix.....	4,045	46	300	39	215	15	33	249	68	140	66	23	2,323	30	31	87	67	19	100	36	26	132
Tucson.....	5,181	25	165	12	133	4	35	116	49	56	20	16	4,261	24	32	67	33	27	35	8	18	65

PER CENT OF FOREIGN-BORN WHITE IN TOTAL POPULATION,
BY COUNTIES: 1920.



COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—AGE, BY QUINQUENNIAL PERIODS, WITH SINGLE YEARS FOR PERSONS UNDER 25, FOR THE STATE: 1920.

AGE.	ALL CLASSES: 1920		NATIVE WHITE: 1920						FOREIGN-BORN WHITE: 1920		NEGRO: 1920		INDIAN, CHINESE, JAPANESE, AND ALL OTHER: 1920	
			Native parentage.		Foreign parentage.		Mixed parentage.							
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Fe- male.	Male.	Female.	Male.	Fe- male.	Male.	Fe- male.
All ages, number.....	183,002	150,580	82,435	68,710	20,497	19,037	11,756	10,915	44,657	33,442	5,859	2,146	18,308	16,310
Under 5 years.....	20,808	19,909	9,823	9,342	5,105	4,957	1,974	1,865	1,416	1,282	170	163	2,320	2,390
Under 1 year.....	4,408	4,144	2,010	1,812	1,378	1,354	459	427	130	131	36	39	386	381
5 to 9 years.....	19,143	18,751	9,011	8,731	3,071	3,133	1,743	1,720	2,765	2,583	139	164	2,414	2,420
10 to 14 years.....	16,534	16,139	8,003	7,697	2,075	2,069	1,382	2,897	2,830	114	149	2,063	2,096	
15 to 19 years.....	14,424	14,011	6,837	6,289	1,409	1,510	1,068	969	3,101	3,381	190	148	1,821	1,714
20 to 24 years.....	17,685	14,153	7,293	6,403	1,326	1,305	966	934	5,033	3,945	1,597	259	1,470	1,307
25 to 29 years.....	17,679	14,419	7,203	6,583	1,306	1,416	856	909	5,420	4,033	1,571	328	1,323	1,150
30 to 34 years.....	15,978	12,376	6,909	5,690	1,150	1,161	847	848	5,198	3,488	730	239	1,144	950
35 to 39 years.....	15,495	11,143	6,020	4,957	1,103	1,028	786	758	5,362	3,314	475	246	1,059	840
40 to 44 years.....	11,787	8,429	5,316	3,798	963	754	666	508	3,532	2,437	329	170	981	762
45 to 49 years.....	10,647	6,321	4,604	2,858	957	578	515	382	3,400	1,759	251	108	920	636
50 to 54 years.....	7,467	4,810	3,207	2,028	701	422	351	257	2,175	1,442	129	65	844	605
55 to 59 years.....	5,174	3,117	2,395	1,393	475	312	259	169	1,437	876	69	44	539	323
60 to 64 years.....	4,042	2,620	1,950	1,176	352	209	146	96	1,078	782	32	17	484	340
65 to 69 years.....	2,620	1,035	1,301	764	218	93	57	683	425	25	18	295	278	
70 to 74 years.....	1,760	1,118	809	438	96	41	60	34	492	386	11	7	202	212
75 to 79 years.....	851	625	353	252	45	24	24	16	269	206	14	7	146	120
80 to 84 years.....	438	301	147	119	22	7	6	5	146	130	3	3	114	127
85 to 89 years.....	164	146	63	45	7	1	6	1	54	51	—	—	34	48
90 to 94 years.....	77	74	11	11	3	—	—	—	18	23	1	—	44	40
95 to 99 years.....	21	17	1	1	—	—	—	—	10	7	1	—	9	9
100 years and over.....	19	21	1	1	—	—	—	—	2	6	—	—	16	14
Age unknown.....	789	236	518	134	23	17	5	5	169	50	8	11	66	19
All ages, per cent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	11.3	13.3	11.9	13.6	24.9	26.0	16.8	17.1	3.2	3.8	2.9	7.6	12.6	14.7
Under 1 year.....	2.4	2.8	2.4	2.6	6.7	7.1	3.9	3.9	0.3	0.4	0.6	1.8	2.1	2.3
5 to 9 years.....	10.4	12.5	10.9	12.7	15.0	16.5	14.8	15.8	6.2	7.7	2.4	7.6	13.1	14.8
10 to 14 years.....	9.0	10.7	9.7	11.2	10.1	10.9	11.8	12.7	6.5	8.5	1.9	6.9	11.2	12.3
15 to 19 years.....	7.9	9.3	8.3	9.2	6.9	7.9	9.1	8.9	6.9	10.1	3.2	6.9	9.9	10.5
20 to 24 years.....	9.6	9.4	8.8	9.3	6.5	6.9	8.2	8.6	11.3	11.8	27.3	12.1	8.0	8.0
25 to 29 years.....	9.6	9.6	8.7	9.6	6.4	7.4	7.3	8.3	12.1	12.1	28.8	15.3	7.2	7.1
30 to 34 years.....	8.7	8.2	8.4	8.3	5.6	6.1	7.2	7.8	11.6	10.4	12.5	11.1	6.2	5.8
35 to 39 years.....	8.4	7.4	8.0	7.2	5.8	5.4	6.7	6.9	12.0	9.0	8.1	11.5	5.8	5.2
40 to 44 years.....	6.4	5.6	6.4	5.5	4.7	4.0	5.7	4.7	7.9	7.8	5.6	7.9	5.3	4.7
45 to 49 years.....	5.8	4.2	5.6	4.2	4.7	3.0	4.4	3.5	7.6	5.3	4.3	5.0	5.0	3.9
50 to 54 years.....	4.1	3.2	4.0	3.0	3.4	2.2	3.0	2.4	4.9	4.3	2.2	3.0	4.6	3.7
55 to 59 years.....	2.8	2.1	2.9	2.0	2.3	1.6	2.2	1.5	3.2	2.6	1.2	2.1	2.9	2.0
60 to 64 years.....	2.2	1.7	2.4	1.7	1.7	1.1	1.2	0.9	2.4	2.3	0.5	0.8	2.6	2.1
65 to 74 years.....	2.4	1.8	2.6	1.7	1.5	0.7	1.3	0.8	2.6	2.4	0.6	1.2	3.2	3.0
75 to 84 years.....	0.7	0.7	0.6	0.5	0.3	0.2	0.3	0.2	0.9	1.0	0.3	0.5	1.4	1.5
85 to 94 years.....	0.1	0.1	0.1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	0.4	0.5
95 years and over.....	(1)	0.4	(1)	0.2	0.6	0.1	0.1	(1)	(1)	(1)	0.1	0.1	0.5	0.1
Age unknown.....	0.4	0.2	0.6	0.2	0.1	0.1	(1)	(1)	0.4	0.1	0.1	0.5	0.4	0.1
<i>Year of age (1-24).</i>														
1 year.....	4,085	3,911	1,941	1,873	1,037	965	404	380	197	180	33	28	473	485
2 years.....	4,121	4,000	2,042	1,854	973	1,007	338	395	280	246	36	33	452	465
3 years.....	3,210	4,043	2,019	1,893	893	897	400	337	346	334	34	28	487	548
4 years.....	3,975	3,001	1,811	1,804	784	734	373	328	454	391	31	35	522	511
5 years.....	4,071	3,876	1,908	1,777	712	726	391	356	496	440	27	34	537	543
6 years.....	3,999	4,016	1,874	1,840	674	717	370	387	557	525	22	40	502	507
7 years.....	3,856	3,708	1,805	1,711	601	637	347	326	563	579	36	30	504	485
8 years.....	3,774	3,737	1,744	1,752	579	564	306	346	618	542	29	27	498	500
9 years.....	3,443	3,354	1,680	1,651	505	489	329	305	531	497	25	33	373	379
10 years.....	3,607	3,579	1,740	1,623	493	516	314	315	637	641	20	31	493	453
11 years.....	3,155	2,994	1,605	1,533	454	390	280	488	479	27	34	301	298	
12 years.....	3,588	3,543	1,667	1,653	429	456	282	306	665	625	26	31	519	472
13 years.....	2,980	3,011	1,466	1,461	383	362	258	271	495	502	19	24	359	391
14 years.....	3,114	3,012	1,525	1,427	310	345	248	230	612	589	22	29	301	302
15 years.....	2,784	2,821	1,325	1,273	286	315	212	199	506	605	20	29	435	400
16 years.....	2,771	2,906	1,338	1,287	287	318	212	226	552	678	17	31	385	371
17 years.....	2,528	2,581	1,287	1,224	245	281	187	182	497	579	19	19	203	270
18 years.....	3,174	2,988	1,422	1,285	324	301	233	182	755	759	39	34	401	397
19 years.....	3,167	2,702	1,465	1,220	287	295	222	180	791	765	95	35	307	267
20 years.....	3,332	3,092	1,359	1,212	270	280	224	177	896	969	171	38	403	416
21 years.....	3,292	2,338	1,523	1,168	258	229	202	158	780	530	251	41	278	212
22 years.....	3,676	2,900	1,515	1,323	255	256	181	197	1,131	818	302	55	292	251
23 years.....	3,070	2,860	1,304	1,312	278	253	187	213	1,131	812	415	69	265	198
24 years.....	3,715	2,963	1,502	1,388	256	287	172	184	1,095	816	458	56	232	232

¹ Less than one-tenth of 1 per cent.

POPULATION—ARIZONA.

TABLE 14.—MARITAL CONDITION OF THE POPULATION 15 YEARS OF AGE AND OVER, FOR THE STATE: 1920, 1910, AND 1900.

[Per cent not shown where base is less than 100.]

CENSUS YEAR, CLASS OF POPULATION, AND AGE PERIOD.	MALES 15 YEARS OF AGE AND OVER.								FEMALES 15 YEARS OF AGE AND OVER.							
	Total. ¹	Single.		Married.		Widowed.		Divorced.	Total. ¹	Single.		Married.		Widowed.		Divorced.
		Number.	Percent.	Number.	Percent.	Number.	Percent.			Number.	Percent.	Number.	Percent.	Number.	Percent.	
1920																
All classes—15 years and over.	127,117	51,329	40.4	87,735	53.3	6,182	4.9	1,166	95,671	20,170	21.1	63,685	66.6	10,388	11.3	852
15 to 19 years.	14,424	14,079	97.6	297	2.1	10	0.1	2	14,011	10,890	77.7	3,006	21.5	70	0.5	30
20 to 24 years.	17,685	12,878	72.8	4,636	26.2	89	0.5	45	14,153	4,251	30.0	6,666	355	2.5	109	
25 to 34 years.	33,657	12,605	37.5	20,130	59.8	615	1.8	250	26,795	3,030	11.3	22,210	82.9	1,249	4.7	287
35 to 44 years.	27,282	5,725	21.0	20,077	73.6	1,092	4.0	334	19,572	1,097	5.6	10,367	83.6	1,886	9.6	201
45 to 54 years.	18,114	3,214	17.7	13,180	72.8	1,309	7.7	273	11,140	620	4.7	8,121	72.9	2,353	21.1	126
55 to 64 years.	9,216	1,626	17.6	6,065	65.8	1,326	14.4	183	5,737	197	3.4	3,206	55.9	2,246	39.1	78
65 years and over.	5,950	978	16.4	3,230	54.3	1,641	27.6	78	4,027	101	2.5	1,271	31.6	2,625	65.2	19
Age unknown.	789	224	28.4	114	14.4	10	1.3	1	236	84	35.6	83	35.2	24	10.2	2
Native white—Native parentage:																
15 years and over ² .	55,593	21,802	39.2	30,217	54.3	2,505	4.5	566	42,940	9,805	22.8	28,758	67.0	3,820	8.9	486
15 to 19 years.	6,837	6,706	98.1	113	1.7	2	(3)	1	5,166	5,166	82.1	1,088	17.3	13	0.2	19
20 to 24 years.	7,293	5,274	72.3	1,952	26.8	29	0.4	20	6,403	2,119	33.1	4,100	64.1	107	1.7	65
25 to 34 years.	14,112	4,821	34.2	8,900	63.1	224	1.6	140	12,273	1,578	12.9	10,109	82.4	411	3.3	164
35 to 44 years.	11,936	2,261	18.9	9,055	75.9	404	3.4	188	8,755	513	5.9	7,520	85.9	605	6.9	110
45 to 54 years.	7,871	1,386	17.6	5,787	73.5	525	6.7	158	4,836	239	4.9	3,793	77.6	738	16.1	62
55 to 64 years.	4,345	752	17.3	2,891	66.5	594	13.7	102	2,569	78	3.0	1,549	60.3	886	34.5	52
65 years and over.	2,686	450	16.8	1,454	54.1	710	26.8	56	1,631	48	2.9	562	34.5	1,005	61.6	13
Native white—For or mixed par.:																
15 years and over ² .	16,903	7,592	44.9	8,371	49.5	710	4.2	200	14,826	8,943	26.6	9,465	63.8	1,229	8.3	167
15 to 19 years.	2,475	2,432	98.3	40	1.6	1	(3)		2,470	2,035	82.1	428	17.3	10	0.4	5
20 to 24 years.	2,292	1,766	77.1	497	21.7	13	0.6	14	2,239	870	38.9	1,297	57.9	50	2.2	22
25 to 34 years.	4,159	1,548	37.2	2,511	60.4	69	1.7	30	4,334	622	14.4	3,469	80.0	179	4.1	60
35 to 44 years.	3,608	850	23.6	2,545	70.5	143	4.0	66	3,048	238	7.8	2,519	82.6	253	8.3	33
45 to 54 years.	2,524	550	21.8	1,739	68.9	185	7.3	45	1,639	112	6.8	1,188	72.4	306	15.7	32
55 to 64 years.	1,232	294	23.0	750	60.9	153	12.4	33	788	49	6.2	460	58.5	261	33.2	13
65 years and over.	535	143	24.4	281	48.0	146	25.0	12	279	15	5.4	93	33.3	167	59.9	2
Native white—Foreign parentage:																
15 years and over ² .	10,246	4,577	44.7	5,074	40.5	468	4.6	106	8,878	2,810	26.0	5,700	64.2	765	8.6	90
15 to 19 years.	1,409	1,379	97.9	28	2.0	1	0.1		1,510	1,209	80.1	291	19.3	8	0.5	2
20 to 24 years.	1,326	1,012	76.3	299	22.5	8	0.6	5	1,305	492	37.7	765	58.6	36	2.8	12
25 to 34 years.	2,158	935	38.1	1,400	59.4	47	1.9	13	2,577	360	14.0	2,070	80.3	117	4.5	30
35 to 44 years.	2,158	539	25.0	1,489	69.1	94	4.4	32	1,782	129	7.2	1,478	82.9	155	8.7	17
45 to 54 years.	1,658	396	23.9	1,103	66.5	126	7.6	31	1,000	77	7.7	721	72.1	179	17.9	20
55 to 64 years.	827	210	25.4	499	60.3	98	11.9	19	521	31	6.0	313	60.1	167	32.1	8
65 years and over.	391	99	25.3	189	48.3	94	24.0	6	166	10	6.0	52	31.3	101	60.8	1
Native white—Mixed parentage:																
15 years and over ² .	6,657	3,015	45.3	3,297	49.5	242	3.6	94	5,948	1,633	27.5	3,765	63.3	464	7.8	77
15 to 19 years.	1,086	1,053	98.8	12	1.1				969	826	85.2	137	14.1	2	0.2	3
20 to 24 years.	986	754	78.1	198	20.5	6	0.5	9	934	378	40.5	532	57.0	14	1.5	10
25 to 34 years.	2,158	935	38.1	1,400	59.4	47	1.9	13	2,577	262	14.9	1,309	79.6	62	3.5	30
35 to 44 years.	1,452	311	21.4	1,056	72.7	49	3.4	34	1,268	109	8.6	1,041	82.2	98	7.7	16
45 to 54 years.	866	154	17.8	636	73.4	59	6.8	14	639	35	5.5	465	72.8	127	19.9	12
55 to 64 years.	405	84	20.7	251	62.0	55	13.6	14	265	18	6.8	147	55.5	94	35.5	5
65 years and over.	194	44	22.7	92	47.4	52	26.8	6	113	5	4.4	41	36.3	66	58.4	1
Foreign-born white:																
15 years and over ² .	37,579	14,520	38.7	20,882	55.6	1,810	4.8	183	26,741	4,395	16.4	18,030	67.4	4,158	15.5	115
15 to 19 years.	3,101	3,017	97.3	70	2.3	4	0.1	1	3,391	2,321	68.6	1,029	30.4	25	0.7	4
20 to 24 years.	5,033	3,472	69.0	1,524	30.3	22	0.4	3	3,945	893	22.6	2,914	73.9	120	3.0	12
25 to 34 years.	10,168	4,053	38.2	6,371	60.0	156	1.5	25	7,521	645	8.6	6,378	84.8	462	6.1	34
35 to 44 years.	8,894	2,086	23.5	6,395	71.9	349	3.9	53	5,751	296	5.1	4,024	80.4	793	13.8	31
45 to 54 years.	5,575	1,049	18.8	4,009	71.9	440	7.9	54	3,201	133	4.2	2,040	63.7	996	31.1	21
55 to 64 years.	2,515	465	18.5	1,631	64.9	372	14.8	39	1,658	67	4.0	750	45.2	829	50.0	9
65 years and over.	1,074	336	20.1	853	51.0	406	27.8	3	1,234	30	2.4	273	22.1	923	74.8	4
Negro:																
15 years and over ² .	5,436	3,088	67.8	1,532	28.2	149	2.7	65	1,670	218	13.1	1,160	69.5	253	15.1	38
15 to 19 years.	100	183	96.3	7	3.7				148	102	68.9	45	30.4	22	1	1
20 to 24 years.	1,697	1,448	90.7	141	8.8	4	0.3	4	259	38	14.7	206	70.5	11	4.2	4
25 to 34 years.	2,301	1,615	70.2	609	28.5	39	3.7	37	507	39	6.9	404	81.8	48	8.5	15
35 to 44 years.	804	305	37.9	454	56.5	30	3.7	14	416	22	5.3	302	72.6	80	19.2	12
45 to 54 years.	380	108	28.4	228	60.0	37	9.7	7	173	11	6.4	108	62.4	49	28.3	5
55 to 64 years.	101	19	18.8	55	54.5	24	23.8	3	61	1	-----	19	40	22	-----	1
65 years and over.	55	8	32	15	-----				39	2	-----	11	22	-----	-----	-----
Indian—15 years and over.	10,378	3,232	31.1	6,043	58.2	983	9.5	47	9,288	1,788	19.3	6,091	65.6	1,344	14.5	46
Chinese—15 years and over.	578	323	30.8	520	59.2	18	2.1	2	92	71	3.8	105	96.3	1	0.9	-----
Japanese—15 years and over.	324	147	45.4	165	50.9	7	2.2	3	109	3	2.8	-----	5	-----	-----	-----
All other—15 years and over.	21	16	-----	5	-----				5	-----		5	-----	7	-----	-----
1910																
All classes—15 years and over.	85,886	39,100	45.8	40,708	47.7	3,723	4.4	661	54,182	12,035	22.2	35,601	65.7	5,668	10.5	533
Native white:																
Native parentage.	33,022	15,351	46.5	15,354	46.5	1,416	4.3	313	21,377	5,121	24.0	14,187				

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TABLE 15.—TOTAL, WHITE, AND COLORED POPULATION, WITH STATE OF BIRTH FOR NATIVES, FOR THE STATE: 1920.

NATIVITY AND STATE OF BIRTH.	All classes: 1920	White: 1920	Colored: ¹ 1920	PER CENT DISTRIBUTION OF TOTAL.						PER CENT DIS- TRIBUTION OF NATIVE WHITE.	
				All classes.		White.		Colored.			
				1920	1910	1920	1910	1920	1910	1920	1910
Total population.....	334,162	291,449	42,713	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....
Native.....	253,598	213,350	40,248	75.9	76.1	73.2	72.7	94.2	94.1	100.0	100.0
Born in—											
Arizona.....	109,776	79,576	30,200	32.9	38.6	27.3	29.4	70.7	86.6	37.3	40.5
Texas.....	22,267	20,810	1,457	6.7	5.0	7.1	5.5	3.4	2.0	0.8	7.6
California.....	10,555	10,162	393	3.2	3.0	3.5	3.4	0.9	1.0	4.8	4.6
Missouri.....	9,074	8,812	262	2.7	2.5	3.0	3.0	0.6	0.3	4.1	4.1
New Mexico.....	7,850	7,696	154	2.3	2.2	2.6	2.5	0.4	0.6	3.6	3.4
Illinois.....	7,680	7,903	77	2.3	2.3	2.6	2.7	0.2	0.1	3.6	3.8
Kansas.....	5,698	5,510	186	1.7	1.3	1.9	1.6	0.4	0.2	2.6	2.2
Ohio.....	4,955	4,538	117	1.5	1.7	1.7	2.0	0.3	0.1	2.3	2.8
Oklahoma.....	4,573	4,348	225	1.4	0.5	1.5	0.8	0.5	0.2	2.0	0.8
Arkansas.....	4,284	4,063	221	1.3	0.8	1.4	0.9	0.5	0.2	1.9	1.2
Iowa.....	4,087	4,036	51	1.2	1.2	1.4	1.4	0.1	(²)	1.9	1.9
Indiana.....	4,032	3,923	99	1.2	1.1	1.3	1.3	0.2	0.1	1.8	1.8
Colorado.....	4,019	3,972	47	1.2	1.0	1.4	1.2	0.1	0.1	1.9	1.6
Other states.....	48,501	44,075	4,428	14.5	13.9	15.1	16.1	10.4	2.1	20.7	22.2
Other native ³	6,247	3,916	2,331	1.9	0.9	1.3	1.0	5.5	0.5	1.8	1.4
Foreign born.....	80,566	78,099	2,467	24.1	23.9	26.8	27.3	5.8	5.9	.....	.....

¹ Comprises persons of Negro descent, Indians, Chinese, Japanese, and all other; see Table 1.

² Less than one-tenth of 1 per cent.
³ Comprises persons born in the United States, state of birth not reported; persons born in outlying possessions, or at sea under United States flag; and persons of foreign birth whose parents were American citizens temporarily absent from the United States.

TABLE 16.—COUNTRY OF BIRTH OF THE FOREIGN-BORN POPULATION, WITH CITIZENSHIP OF THE FOREIGN-BORN WHITE, FOR THE STATE: 1920.

[See also Tables 5, 6, and 12. Per cent not shown where base is less than 100.]

COUNTRY OF BIRTH.	TOTAL FOREIGN BORN.				FOREIGN-BORN WHITE.					FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER.			
	Both sexes.		Male.	Female.	Total.	Naturalized.		Having first papers.	Alien.	Citizen-ship not reported.	Total.	Naturalized.	
	Number.	Per cent distribution.				Number.	Per cent.					Number.	Percent.
Total.....	80,566	100.0	46,403	34,163	78,089	11,757	15.1	1,953	61,339	3,050	55,973	10,708	19.1
Mexico.....	61,580	76.4	33,590	27,990	60,325	2,851	4.7	261	55,852	1,301	39,384	2,186	5.6
England.....	2,883	3.6	1,691	1,192	2,832	1,707	59.2	245	673	257	2,603	1,574	60.5
Canada.....	1,964	2.4	1,199	765	1,962	1,144	58.3	126	357	335	1,805	1,003	60.6
Germany.....	1,516	1.9	1,014	502	1,516	1,012	66.8	128	198	178	1,486	998	67.2
Italy.....	1,261	1.6	919	342	1,261	526	41.7	181	493	61	1,174	501	42.7
Ireland.....	1,206	1.5	761	445	1,206	800	66.3	93	173	140	1,193	798	66.9
Jugo-Slavia.....	1,167	1.4	915	252	1,167	815	27.0	217	594	41	1,110	296	26.7
Spain.....	1,013	1.3	766	247	1,013	74	7.3	35	858	46	898	67	7.5
Sweden.....	859	1.1	558	301	859	530	61.7	89	156	84	844	520	61.6
Russia.....	816	1.0	497	319	816	255	34.9	42	429	60	690	271	39.3
China.....	720	0.9	665	55	3	2	-----	1	-----	3	2	-----	-----
Scotland.....	505	0.7	375	220	505	354	59.5	54	136	51	561	338	60.2
Austria.....	438	0.6	340	146	438	249	51.2	55	133	49	457	235	51.4
Japan.....	427	0.5	317	110	427	142	34.9	57	186	22	381	132	34.6
Finland.....	407	0.5	249	158	407	142	34.9	57	186	22	381	132	34.6
Denmark.....	398	0.5	280	118	398	264	66.3	31	71	32	385	259	67.3
France.....	394	0.5	242	152	394	242	61.4	33	85	34	370	235	63.5
Syria.....	327	0.4	209	118	327	91	27.8	35	195	6	303	87	28.7
All other countries.....	2,547	3.2	1,816	731	2,482	1,160	47.1	271	749	293	2,326	1,116	48.0

TABLE 17.—YEAR OF IMMIGRATION OF THE FOREIGN-BORN POPULATION, FOR THE STATE: 1920.

SEX.	Total foreign born: 1920	YEAR OF IMMIGRATION.							PER CENT OF TOTAL ARRIVING IN—						
		1918-1919	1916-1917	1911-1915	1906-1910	1901-1905	1900 or earlier.	Year not reported.	1918-1919	1916-1917	1911-1915	1906-1910	1901-1905	1900 or earlier.	
		Number.	Percent.	Number.	Percent.	Number.	Percent.	Number.	Percent.	Number.	Percent.	Number.	Percent.	Year not reported.	
Both sexes.....	80,566	15,445	12,019	16,820	9,903	5,877	12,777	7,925	19.2	14.9	20.9	12.3	7.0	15.9	9.8
Male.....	46,403	8,766	6,589	9,341	5,944	3,458	8,072	4,233	18.0	14.2	20.1	12.8	7.5	17.4	9.1
Female.....	34,163	6,679	5,430	7,479	3,959	2,219	4,705	3,692	19.6	15.0	21.9	11.6	6.5	13.8	10.8

TABLE 18.—FOREIGN-BORN WHITE POPULATION UNABLE TO SPEAK ENGLISH, FOR THE STATE: 1920.

SEX.	FOREIGN-BORN WHITE 10 YEARS OF AGE AND OVER: 1920			FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER: 1920		
	Total number.	Unable to speak English.		Total number.	Unable to speak English.	
		Number.	Percent.		Number.	Percent.
Both sexes.....	70,053	36,352	51.9	55,973	29,357	52.4
Male.....	40,476	19,009	47.0	33,582	15,704	46.8
Female.....	29,577	17,343	58.6	22,391	13,653	61.0

POPULATION—ARIZONA.

TABLE 19.—SCHOOL ATTENDANCE, BY AGE PERIODS, FOR THE STATE: 1920.

[See also Table 2. Per cent not shown where base is less than 100.]

CLASS OF POPULATION AND SEX.	Total number of persons attending school: 1920	PERSONS 7 TO 13 YEARS OF AGE.		PERSONS 14 AND 15 YEARS OF AGE.		PERSONS 16 AND 17 YEARS OF AGE.		PERSONS 18 TO 20 YEARS OF AGE.		OTHERS ATTENDING SCHOOL.					
		Total number.	Attending school.	Total number.	Attending school.	Total number.	Attending school.	Total number.	Attending school.	Under 7 years of age.	21 years of age and over.				
										Number.	Per cent.				
All classes.....	60,688	48,479	38,179	78.8	11,731	8,663	73.8	10,769	4,874	45.3	18,485	2,671	14.4	5,271	1,030
Male.....	30,576	24,493	19,345	79.0	5,898	4,380	74.3	5,299	2,778	43.0	9,673	1,360	14.1	2,590	623
Female.....	30,112	23,986	18,834	78.5	5,833	4,283	73.4	5,470	2,596	47.5	8,812	1,311	14.9	2,681	407
Native white:															
Native parentage.....	34,738	23,091	21,434	92.8	5,550	4,940	89.0	5,136	2,971	57.8	7,963	1,602	20.1	3,205	526
Male.....	17,498	11,707	10,872	92.9	2,850	2,520	88.4	2,825	1,372	52.3	4,246	788	18.6	1,035	311
Female.....	17,240	11,384	10,562	92.8	2,700	2,420	89.6	2,511	1,599	63.7	3,717	814	21.9	1,630	215
Foreign parentage.....	8,003	6,558	5,566	81.2	1,262	957	75.8	1,111	451	40.6	1,766	219	12.4	782	118
Male.....	4,005	3,444	2,807	81.5	602	460	76.4	512	209	40.8	890	112	12.6	355	62
Female.....	4,088	3,414	2,759	80.8	600	497	75.3	509	242	40.4	876	107	12.2	427	56
Mixed parentage.....	5,756	4,245	3,729	87.8	889	745	83.8	807	426	52.8	1,218	229	18.8	540	87
Male.....	2,855	2,116	1,849	87.4	460	382	83.0	399	197	49.4	679	116	17.1	260	51
Female.....	2,901	2,129	1,880	88.3	429	363	84.6	408	229	56.1	539	113	21.0	280	36
Foreign-born white.....	7,184	7,862	4,820	61.3	2,312	1,222	52.9	2,301	479	20.8	4,035	188	3.8	346	129
Male.....	3,855	3,997	2,468	61.7	1,118	612	54.7	1,049	211	20.1	2,442	97	4.0	178	89
Female.....	3,529	3,865	2,352	60.9	1,194	610	51.1	1,252	208	21.4	2,493	91	3.7	168	40
Negro.....	567	392	355	90.6	100	70	79.0	86	41	.....	412	15	3.6	64	13
Male.....	260	182	169	92.9	42	32	.....	36	17	.....	305	8	2.6	24	10
Female.....	307	210	186	88.6	58	47	.....	50	24	.....	107	7	6.5	40	3

TABLE 20.—SCHOOL ATTENDANCE, BY SINGLE YEARS FROM 5 TO 20, FOR THE STATE: 1920.

[See also Table 2. Per cent not shown where base is less than 100.]

YEAR OF AGE.	NUMBER AND PER CENT OF TOTAL AT SPECIFIED AGE ATTENDING SCHOOL: 1920														
	All classes.						Native white.						Foreign-born white.		
	Both sexes.		Male.		Female.		Native parentage.		Foreign parentage.		Mixed parentage.				
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	
5 years.....	1,083	13.6	555	13.6	528	13.6	682	18.5	164	11.4	112	15.0	53	5.7	18
6 years.....	4,026	50.2	1,954	48.9	2,072	51.6	2,477	66.7	505	42.8	413	54.6	285	26.3	45
7 years.....	5,201	68.2	2,655	68.9	2,546	67.6	3,029	86.1	820	66.2	497	73.8	511	44.7	55
8 years.....	5,582	74.3	2,824	74.8	2,758	73.8	3,156	90.3	876	76.6	534	81.9	658	56.7	48
9 years.....	5,433	79.9	2,708	80.4	2,665	79.5	3,072	92.2	827	83.2	560	88.3	637	62.0	53
10 years.....	5,859	80.5	2,977	80.5	2,882	80.5	3,200	95.2	879	87.1	590	93.8	830	64.9	48
11 years.....	5,284	85.9	2,713	86.0	2,571	85.9	2,997	95.5	753	89.2	511	94.6	669	69.2	56
12 years.....	5,837	81.9	2,896	80.7	2,941	83.0	3,190	96.1	783	88.5	544	92.5	854	66.2	54
13 years.....	4,983	83.2	2,512	84.3	2,471	82.1	2,790	95.3	628	84.3	493	93.2	661	66.3	41
14 years.....	4,780	78.0	2,429	78.0	2,351	78.1	2,721	92.2	543	82.1	420	87.9	802	57.6	44
15 years.....	3,883	69.3	1,951	70.1	1,832	68.5	2,219	85.4	414	68.9	325	79.1	530	47.7	35
16 years.....	2,907	52.3	1,407	50.8	1,560	53.7	1,776	67.7	292	49.9	270	61.6	314	25.6	30
17 years.....	1,907	37.5	871	34.5	1,036	40.4	1,195	47.6	159	30.2	158	42.3	165	15.3	11
18 years.....	1,371	22.4	650	20.5	721	24.4	842	31.1	121	19.4	117	28.2	108	7.1	7
19 years.....	837	14.1	439	13.9	398	14.4	505	18.8	65	11.2	67	16.7	57	3.7	3
20 years.....	463	7.2	271	8.1	102	6.2	255	9.0	33	5.9	45	11.2	23	1.2	5

TABLE 21.—ILLITERACY OF THE POPULATION 10 YEARS OF AGE AND OVER, BY AGE PERIODS, FOR THE STATE: 1920.

[See also Table 4. Per cent not shown where base is less than 100.]

SEX AND AGE PERIOD.	ALL CLASSES: 1920			NATIVE WHITE.			FOREIGN-BORN WHITE.			NEGRO.					
	Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.				
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.			
10 years and over.....	255,461	39,131	15.3	114,238	1,454	1.3	23,268	1,424	6.1	15,369	355	2.3	7,369	338	4.6
Male.....	143,651	19,984	13.9	63,601	764	1.2	12,321	653	5.3	8,039	159	2.0	40,476	9,321	4.6
Female.....	111,810	19,147	17.1	50,637	690	1.4	10,947	771	7.0	7,330	108	2.7	29,577	1,819	4.5
21 years and over.....	187,929	30,636	16.3	82,841	1,197	1.4	16,646	848	6.1	10,169	210	2.1	55,973	16,057	28.7
Male.....	109,361	15,847	14.5	47,402	625	1.3	8,558	492	5.0	5,367	87	1.6	33,582	8,369	24.9
Female.....	78,568	14,789	18.8	35,439	572	1.6	7,088	517	7.3	4,802	123	2.6	22,301	7,088	34.3
Both sexes:															
10 to 14 years.....	32,673	3,698	11.3	15,700	79	0.5	4,144	220	5.3	2,764	74	2.7	5,733	1,161	20.3
15 to 24 years.....	60,273	8,045	13.3	26,822	202	1.1	5,550	391	7.0	3,036	117	3.0	15,460	4,012	26.0
25 to 34 years.....	60,452	8,520	14.1	26,385	207	1.0	5,032	348	6.9	3,460	76	2.2	18,139	4,194	27.4
35 to 44 years.....	46,894	7,359	15.7	20,601	135	1.0	3,938	255	6.5	2,718	44	1.6	14,645	4,126	28.2
45 to 54 years.....	29,254	5,484	18.7	12,757	236	1.8	2,658	112	4.2	1,505	21	1.4	8,776	2,139	29.8
55 to 64 years.....	14,953	2,988	20.0	6,914	152	2.2	1,348	56	4.2	670	13	1.9	4,173	1,342	32.2
65 years and over.....	9,977	2,908	29.1	4,317	150	3.7	557	40	7.2	307	9	2.9	2,908	997	34.3
Male:															
10 to 14 years.....	16,534	1,873	11.3	8,003	41	0.5	2,075	124	6.0	1,382	35	2.5	2,897	606	20.9
15 to 24 years.....	32,109	3,972	12.4	14,130	158	1.1	2,735	161	5.9	2,032	54	2.7	8,134	1,985	24.4
25 to 34 years.....	33,657	4,231	12.6	14,112	130	1.0	2,450	132	5.4	1,703	29	1.7	10,618	2,158	23.7
35 to 44 years.....	27,282	3,746	13.7	11,936	139	1.2	2,150	112	5.2	1,452	23	1.6	8,894	2,143	24.1
45 to 54 years.....	18,114	2,992	16.4	7,871	115	1.5	1,658	63	3.8	866	8	0.9	5,575	1,444	25.9
55 to 64 years.....	9,210	1,607	17.4	4,345	82	1.9	827	31	3.7	405	7	1.7	2,515	686	27.3
65 years and over.....	5,950	1,													

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TABLE 22.—COUNTRY OF ORIGIN AND MOTHER TONGUE OF THE FOREIGN WHITE STOCK, FOR THE STATE: 1920.

[Figures for country of origin relate to countries as constituted prior to the World War.]

COUNTRY OF ORIGIN.	Total foreign white stock: 1920	Foreign-born white—Birthplace of father.	NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE.				MOTHER TONGUE.	Total foreign white stock: 1920	Foreign-born white.	NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE.			
			Total.	Both parents foreign.	Father foreign.	Mother foreign.				Total.	Both parents foreign.	Father foreign.	Mother foreign.
Total.....	140,304	78,099	62,205	39,534	13,880	8,791	Total.....	140,304	78,099	62,205	39,534	13,880	8,791
Northwestern Europe:							English and Celtic.....	21,960	7,078	14,882	6,391	5,309	3,182
England.....	8,004	3,073	5,021	1,884	1,920	1,217	Germanic:						
Scotland.....	2,113	827	1,280	452	568	266	German.....	7,697	2,205	5,492	3,036	1,787	669
Wales.....	401	108	403	107	165	71	Dutch and Frisian.....	283	83	200	87	82	31
Ireland.....	5,450	1,509	3,941	2,122	1,189	630	Flemish.....	93	33	60	20	25	15
Norway.....	809	329	480	254	101	125	Scandinavian:						
Sweden.....	2,035	867	1,168	656	301	211	Swedish.....	2,168	943	1,225	707	306	212
Denmark.....	1,227	444	783	392	204	127	Norwegian.....	787	327	440	254	85	121
Netherlands.....	273	81	192	81	80	31	Danish.....	1,161	398	703	380	237	126
Belgium.....	165	64	101	33	50	18	Latin and Greek:						
Luxemburg.....	50	20	30	11	11	8	Italian.....	2,385	1,325	1,000	856	163	41
Switzerland.....	788	307	481	224	165	92	French.....	1,622	543	1,079	442	466	181
France.....	1,083	416	667	238	296	133	Spanish.....	93,278	61,233	32,045	22,943	5,038	4,004
Central and Eastern Europe:							Portuguese.....	67	34	33	11	22	3
Germany.....	6,399	1,752	4,047	2,509	1,607	531	Rumanian.....	55	33	22	18	1	1
Austria.....	2,069	1,090	979	662	205	112	Greek.....	431	335	98	69	27	.....
Hungary.....	1,038	671	367	314	41	12	Slavic and Lettic:						
Russia.....	1,856	991	865	744	80	32	Polish.....	441	220	215	152	38	25
Finland.....	636	390	240	209	17	14	Czech.....	391	154	237	120	73	44
Romania.....	74	47	27	22	1	4	Slovak.....	154	97	57	46	11	.....
Bulgaria, Serbia, and Montenegro.....	642	302	250	239	10	1	Russian ²	1,201	622	579	520	46	13
Turkey in Europe.....	20	18	2	.....	2	.....	Ruthenian.....	5	4	1	1	.....	7
Southern Europe:							Slovenian.....	381	230	151	130	14	7
Greece.....	413	323	90	62	28	.....	Serbo-Croatian.....	1,788	1,085	703	661	35	7
Italy.....	2,934	1,342	902	707	152	43	Bulgarian.....	35	34	1	1	.....	.....
Spain.....	1,578	1,139	439	318	92	29	Slavic, not specified.....						
Portugal.....	62	34	28	9	19	.....	Lithuanian and Lettish.....	65	43	22	16	4	2
Europe, not specified.....	17	6	11	3	4	4	Unclassified:						
Asia:							Yiddish and Hebrew.....	378	222	156	127	21	8
Turkey in Asia.....	634	355	279	236	27	16	Magyar.....	156	82	74	43	24	7
All other countries.....	54	26	28	13	10	5	Finnish.....	602	314	188	163	15	10
America:							Armenian.....	19	10	9	2	7	.....
Canada—French.....	279	79	200	79	91	30	Syrian and Arabic.....	622	350	266	226	24	16
Canada—Other.....	4,056	1,330	2,720	606	1,278	842	Turkey.....	7	7	.....	.....	.....	.....
Newfoundland.....	29	18	11	2	4	5	Albanian.....	6	4	2	2	.....	.....
West Indies ¹	53	32	21	8	10	3	All other.....	6	3	3	3	.....	.....
Mexico.....	91,514	59,824	31,690	22,641	4,965	4,084	Unknown.....	58	36	22	8	7	7
Central and South America.....	81	35	46	2	25	19	Of mixed mother tongue.....	2,102	.....	2,102	2,102	.....	.....
All other.....	268	64	204	35	93	76							
Of mixed foreign parentage.....	3,510	.....	3,510	3,510	.....	.....					

¹ Except possessions of the United States.

² Probably includes a considerable proportion of Hebrews erroneously reported as of Russian mother tongue.

TABLE 23.—OWNERSHIP OF HOMES, FOR COUNTIES AND PLACES HAVING 10,000 INHABITANTS OR MORE: 1920.

POPULATION—ARIZONA.

TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920.

[Population 10 years of age and over—Total, 255,461; males, 143,651; females, 111,810. Persons gainfully occupied—Total, 130,579; males, 112,193; females, 18,386. Per cent of persons 10 years of age and over gainfully occupied—Total, 51.1; males, 78.1; females, 16.4.]

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.					
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	65 years and over.
		Native Parent-age.	Foreign or mixed Parent-age.									
MALES	112,193	48,933	14,802	34,827	5,345	8,286	4,381	4,727	15,887	158,298	25,172	3,728
Agriculture, forestry, and animal husbandry	32,917	14,422	3,303	8,684	235	6,273	2,418	1,538	4,168	14,886	8,353	1,554
Dairy farmers	156	82	27	46	.....	1	.....	.....	11	89	52	4
Farm foremen, general farms	327	225	45	51	3	3	.....	4	27	194	84	18
Farm laborers (home farm)	1,069	653	104	76	10	226	398	199	245	182	31	14
Farm laborers (working out)	12,902	4,231	1,137	6,251	145	1,388	1,386	950	2,258	5,696	2,266	346
Farmers, general farms	10,633	6,028	1,261	970	68	2,812	77	650	5,141	3,975	790	—
Garden, greenhouse, orchard, and nursery laborers	197	60	28	78	3	28	10	10	22	84	54	17
Gardeners	580	57	10	24	1	488	.....	.....	28	262	209	81
Irrigators and ditch tenders	371	110	19	201	2	39	9	21	85	190	60	6
Lumbermen, raftsmen, and woodchoppers	655	116	61	299	1	178	25	26	100	335	140	29
Stockherders, drovers, and feeders	2,780	1,264	225	396	8	867	567	215	485	988	429	76
Stockraisers	2,581	1,182	268	162	4	985	.....	13	186	1,359	851	142
All other occupations	686	434	118	124	2	8	23	23	71	336	202	31
Extraction of minerals	15,339	4,181	1,925	9,165	32	36	104	381	1,912	9,221	3,234	487
Copper mine operatives	12,185	2,823	1,302	8,007	20	24	85	326	1,684	7,714	2,125	251
Foremen and overseers	359	171	79	109	.....	.....	1	6	222	124	6	—
Gold and silver mine operatives	1,068	674	348	644	2	.....	10	27	119	786	588	138
Managers	232	122	53	57	.....	.....	.....	1	1	109	109	18
Operators	146	94	22	30	.....	.....	1	3	47	67	28	—
All other occupations	749	297	121	318	1	12	9	26	99	343	221	51
Manufacturing and mechanical industries	21,840	10,421	3,487	7,056	312	564	619	956	2,920	11,635	5,107	603
Apprentices	204	179	68	40	4	3	191	59	29	14	1	—
Bakers	242	56	27	151	4	4	6	6	30	142	50	8
Blacksmiths	734	365	140	206	7	16	.....	16	53	375	230	51
Boiler makers	317	132	103	75	2	5	7	51	199	58	2	—
Brick and stone masons	255	114	47	119	1	4	.....	1	25	141	110	8
Builders and building contractors	309	203	53	53	.....	.....	.....	1	155	140	13	—
Carpenters	2,840	1,730	416	601	17	26	12	52	197	1,382	1,008	189
Compositors, linotypers, and typesetters	267	148	69	44	6	5	19	36	126	77	4	—
Cranemen, derrickmen, hoistmen, etc.	295	182	69	43	2	1	3	1	22	189	79	1
Electricians	756	543	126	84	2	1	.....	25	135	511	79	6
Engineers (stationary)	1,171	779	204	163	9	16	9	15	111	672	330	34
Foremen and overseers (manufacturing)	370	218	68	81	2	1	.....	2	16	235	116	1
Furnace men and smelters	400	160	49	189	2	.....	2	12	58	239	89	—
Laborers (not otherwise specified):												
Building, general, and not specified laborers	2,982	734	301	1,521	102	184	172	207	477	1,338	692	96
Copper factories	1,840	246	145	1,392	3	54	27	87	315	1,081	314	16
Helpers in building and hand trades	212	105	38	53	8	8	17	15	35	100	42	3
Saw and planing mills ^a	337	140	16	147	1	33	15	29	74	164	52	3
Other industries	1,036	310	152	498	48	28	68	89	207	488	168	16
Machinists	1,599	946	323	278	20	32	.....	07	268	975	275	16
Manners and superintendents (manufacturing)	238	161	50	27	.....	.....	.....	5	159	72	2	—
Manufacturers	204	112	35	56	1	.....	1	12	112	70	9	—
Mechanics (not otherwise specified)	1,163	813	185	135	24	6	.....	78	265	602	117	11
Painters, glaziers, and varnishers (building)	485	305	76	97	3	4	3	3	33	251	174	24
Plasterers and cement finishers	163	65	44	44	8	2	.....	5	9	91	49	9
Plumbers and gas and steam fitters	509	202	108	98	4	7	.....	16	57	331	102	3
Semiskilled operatives (not otherwise specified):												
Copper factories	272	147	45	80	.....	.....	.....	10	37	171	49	5
Iron and steel industries—												
Car and railroad shops	220	85	43	81	5	6	8	9	48	119	34	2
Other iron and steel industries	215	120	54	36	5	.....	15	18	45	100	36	1
Other industries	680	311	121	149	12	87	55	67	100	311	125	16
Shoemakers and cobblers (not in factory)	236	64	24	140	5	3	4	5	20	112	73	22
Tailors	245	57	22	158	6	4	.....	4	30	153	53	5
All other occupations	924	499	178	219	7	23	10	31	115	507	234	27
Transportation	11,276	4,797	1,409	4,613	142	315	402	610	1,826	6,127	2,097	214
Boiler washers and engine hostlers	165	62	21	55	3	14	7	9	26	81	31	1
Brakemen	489	377	76	35	1	.....	6	6	38	300	79	6
Chauffeurs	507	301	88	89	28	1	27	36	118	272	50	4
Conductors (steam railroad)	287	222	51	14	.....	.....	4	100	91	—	—	—
Draymen, teamsters, and expressmen ^b	1,495	810	202	203	29	61	60	88	254	686	314	54
Foremen and overseers (steam railroad)	334	220	44	69	1	.....	2	1	18	153	154	7
Garage keepers and managers	187	137	34	16	.....	.....	1	13	142	20	2	—
Inspectors (steam railroad)	144	100	29	15	.....	.....	1	3	13	91	35	1
Laborers:												
Road and street building and repairing	1,484	305	191	823	20	145	70	128	292	605	262	37
Steam railroad	3,551	396	169	2,898	32	88	142	289	747	1,843	534	46
Other transportation industries	180	91	24	47	14	4	24	16	29	80	29	2
Locomotive engineers	433	304	84	45	.....	.....	5	203	127	8	—	—
Locomotive firemen	399	311	60	27	1	.....	10	100	277	12	—	—
Officials and superintendents (steam railroad)	150	106	30	20	.....	.....	5	89	57	—	—	—
Switchmen and flagmen (steam railroad)	214	108	29	16	1	.....	4	18	151	34	34	5
Telegraph operators	251	199	43	9	.....	.....	2	8	39	159	40	3
All other occupations	1,010	688	174	132	12	4	60	30	107	565	219	29

^a Includes 579 males of unknown age.^b Includes box factories (wood).

* Teamsters in agriculture, forestry, and the extraction of minerals are classified with the other workers in those industries, respectively; and drivers for bakeries and laundries are classified with deliverymen in trade.

COMPOSITION AND CHARACTERISTICS.

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TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.				AGE PERIODS.						
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	
		Native parent-age.	Foreign or mixed parent-age.									
MALES—Continued.												
Trade.....	9,788	5,441	1,732	2,231	62	332	385	321	1,030	5,209	2,457	306
Bankers and bank officials.....	262	211	33	18	.....	.....	.....	14	194	48	6	
Brokers and money lenders.....	219	127	29	63	.....	.....	1	6	127	74	11	
Clerks in stores ¹	731	428	176	157	2	28	63	69	151	398	100	10
Commercial travelers.....	208	146	39	23	.....	.....	9	15	134	44	6	
Deliverymen.....	432	257	73	99	3	.....	47	47	100	185	45	2
Insurance agents.....	146	111	21	14	.....	.....	.....	9	91	43	3	
Laborers in coal and lumber yards, warehouses, etc.....	229	102	36	72	9	10	9	20	37	119	39	
Laborers, porters, and helpers in stores.....	222	77	30	74	27	14	30	17	33	99	40	3
Real estate agents and officials.....	551	307	94	59	1	.....	10	29	187	2,122	222	38
Retail dealers ²	3,845	1,787	612	1,195	13	238	135	119	415	1,323	174	
Salesmen (stores).....	2,278	1,377	478	381	3	39	91	10	36	323	338	34
All other occupations.....	615	421	111	76	4	3	.....	.....	.....	141	14	
Public service (not elsewhere classified).....	8,223	2,720	827	673	3,945	58	59	587	2,607	4,079	780	111
Guards, watchmen, and doorkeepers.....	401	260	58	81	.....	2	3	4	12	106	210	66
Laborers (public service).....	397	102	55	224	8	8	24	17	61	204	80	11
Marshals, sheriffs, detectives, etc.....	204	153	37	12	.....	2	.....	8	114	74	8	
Officials and inspectors (city and county).....	174	131	25	18	.....	.....	.....	5	83	75	11	
Policemen.....	147	77	22	10	1	37	.....	.....	11	87	44	5
Soldiers, sailors, and marines ³	6,302	1,506	519	275	8,936	6	31	502	2,468	3,104	135	2
United States officials.....	426	305	82	38	1	.....	.....	30	30	281	108	7
All other occupations.....	172	126	29	15	.....	2	1	4	12	100	54	1
Professional service.....	4,229	2,727	766	605	50	81	28	44	367	2,494	1,136	160
Chemists, assayers, and metallurgists.....	192	127	29	35	1	.....	.....	.....	23	139	26	4
Civil engineers and surveyors.....	451	330	91	20	1	.....	.....	.....	62	299	82	8
Clergymen.....	307	159	44	77	23	4	.....	.....	19	136	133	19
Electrical and mechanical engineers.....	219	148	39	31	1	.....	.....	.....	17	153	42	7
Lawyers, judges, and justices.....	439	325	83	28	1	2	.....	.....	8	244	158	29
Mining engineers.....	399	253	84	61	1	.....	.....	.....	16	269	102	12
Musicians and teachers of music.....	186	56	46	70	6	8	4	3	29	106	41	3
Physicians and surgeons.....	303	256	60	39	4	4	.....	.....	5	199	140	19
Teachers (school).....	435	324	66	26	6	13	.....	.....	5	289	97	8
All other occupations.....	1,238	749	224	209	10	46	24	30	152	660	315	51
Domestic and personal service.....	4,575	1,507	595	1,306	552	615	164	127	373	2,278	1,408	224
Barbers, hairdressers, and manicurists.....	674	290	92	184	105	3	5	11	30	408	197	14
Billiard and pool room keepers.....	237	69	53	102	5	8	2	12	156	63	4	
Hotel keepers and managers.....	198	97	40	52	7	2	1	1	78	99	10	
Janitors and sextons.....	393	127	38	82	133	13	17	6	19	149	164	33
Laundry operatives.....	198	45	23	26	7	97	12	8	18	79	70	11
Restaurant, cafe, and lunch room keepers.....	298	97	25	81	7	88	4	4	17	159	111	7
Servants.....	1,362	318	159	466	107	312	75	45	136	625	413	68
Waiters.....	340	110	42	97	31	60	22	19	54	197	45	3
All other occupations.....	875	354	123	216	150	32	33	31	77	427	247	60
Clerical occupations.....	3,996	2,717	758	494	15	12	202	163	684	2,279	599	89
Accountants and auditors.....	209	203	65	31	.....	.....	1	11	214	67	6	
Agents.....	200	194	38	27	1	.....	2	16	178	62	7	
Bookkeepers and cashiers.....	993	688	167	135	2	1	10	26	177	595	164	21
Canvassers and collectors.....	90	61	14	15	.....	.....	4	5	13	47	20	1
Clerks (except clerks in stores).....	2,033	1,374	401	240	10	8	71	64	408	1,148	278	34
Messenger, bundle, and office boys ⁴	157	79	42	32	3	1	112	28	10	6	1	.....
Stenographers and typists.....	104	118	31	14	.....	1	5	7	49	96	7	.....
FEMALES.....	18,386	7,637	2,738	4,935	677	2,399	1,662	1,321	3,363	8,830	2,878	332
Agriculture, forestry, and animal husbandry.....	3,282	425	194	1,889	28	746	898	234	383	1,190	482	95
Farm laborers (home farm and working out).....	2,303	152	128	1,827	27	109	551	202	344	956	217	33
Farmers, general farms.....	342	187	43	31	.....	81	.....	.....	9	140	154	39
Stock herders, drovers, and feeders.....	435	5	1	4	1	424	346	31	18	18	4	.....
Stock raisers.....	129	43	9	10	.....	67	1	1	7	49	62	11
All other occupations.....	73	38	13	17	.....	5	1	5	27	31	8	.....
Extraction of minerals (all occupations).....	98	23	12	62	1	.....	1	2	21	52	18	4
Manufacturing and mechanical industries.....	2,215	382	118	255	28	1,432	159	115	279	1,130	442	90
Dressmakers and seamstresses (not in factory).....	461	206	72	155	23	5	1	5	37	208	115	5
Semiskilled operatives (not otherwise specified):												
Textile industries.....	1,363	4	.....	1	.....	1,358	125	83	197	638	251	69
Other industries.....	177	62	22	32	61	14	18	24	21	73	34	14
All other occupations.....	214	110	24	67	5	8	15	13	21	121	42	2

¹ Many of the "Clerks in stores" probably are "Salesmen."

² Includes, also, managers and superintendents of retail stores.

³ Includes only those resident in continental United States at the date of the enumeration.

⁴ Except telegraph messengers.

⁵ Includes 111 females of unknown age.

POPULATION—ARIZONA.

TABLE 24.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.					
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	65 years and over.
		Native parentage.	Foreign or mixed parentage.									
FEMALES—Continued.												
Transportation.....	313	227	50	33	.....	3	44	54	90	112	12	1
Telephone operators.....	211	173	32	6	.....	.....	34	42	65	64	6	.....
All other occupations.....	102	54	18	27	.....	3	10	12	25	48	6	1
Trade.....	1,516	853	360	289	8	6	127	210	317	688	165	9
Clerks in stores ¹	807	190	70	44	1	2	30	60	85	117	15	.....
Retail dealers ²	187	82	40	59	4	2	1	3	13	121	44	5
Saleswomen (stores).....	910	507	231	167	3	2	96	144	217	380	63	1
All other occupations.....	112	74	19	19	.....	.....	3	2	61	43	3	3
Public service (not elsewhere classified) (all occupations).....	130	79	41	9	.....	1	1	1	19	70	38	1
Professional service.....	2,976	2,120	596	219	19	22	12	98	740	1,730	377	19
Musicians and teachers of music.....	175	124	35	10	6	.....	2	9	29	114	20	1
Teachers (school).....	2,039	1,503	417	98	10	11	4	66	588	1,153	218	10
Trained nurses.....	394	231	89	69	2	3	2	7	68	258	57	2
All other occupations.....	368	262	55	42	1	8	4	16	55	205	82	6
Domestic and personal service.....	5,600	1,902	876	2,046	589	187	334	341	771	2,799	1,244	111
Boarding and lodging house keepers.....	530	217	105	194	13	1	.....	2	17	282	206	23
Hotel keepers and managers.....	139	76	32	29	2	.....	.....	.....	6	80	49	4
Housekeepers and stewardesses.....	479	249	82	99	26	23	.....	16	50	229	182	22
Laundresses (not in laundry).....	1,238	159	147	702	201	29	36	43	123	691	313	32
Laundry operatives.....	205	89	52	139	10	5	36	52	56	118	30	3
Nurses (not trained).....	328	207	75	41	3	2	4	26	163	129	6	6
Servants.....	1,875	529	244	89	289	124	211	167	320	850	299	19
Waitresses.....	510	206	104	95	18	2	47	51	149	246	17	.....
All other occupations.....	206	80	35	58	32	1	4	6	15	140	39	2
Clerical occupations.....	2,256	1,626	491	133	4	2	86	266	743	1,059	100	2
Bookkeepers and cashiers.....	673	473	150	47	2	1	31	82	189	332	39	.....
Clerks (except clerks in stores).....	569	410	120	30	2	1	22	48	170	296	33	.....
Stenographers and typists.....	958	699	210	49	.....	.....	29	128	370	412	19	.....
All other occupations.....	50	38	11	7	.....	.....	4	8	14	19	9	2

¹ Many of the "Clerks in stores" probably are "Saleswomen."² Includes, also, managers and superintendents of retail stores.

TABLE 25.—WOMEN 15 YEARS OF AGE AND OVER IN EACH PRINCIPAL CLASS OF THE POPULATION ENGAGED IN GAINFUL OCCUPATIONS, CLASSIFIED BY MARITAL CONDITION, WITH A DISTRIBUTION OF THE MARRIED BY AGE PERIODS, FOR THE STATE: 1920.

CLASS OF POPULATION.	Aggregate.	MARRIED.						Single, widowed, divorced, and unknown.	
		Total.	15 to 19 years.	20 to 24 years.	25 to 34 years.	35 to 44 years.	45 years and over. ¹		
All classes.....	17,707	6,174	300	877	2,137	1,746	1,114	11,533	
Native white—Native parentage.....	7,601	2,153	58	281	770	650	394	5,448	
Native white—Foreign or mixed parentage.....	2,692	665	26	62	227	217	133	2,027	
Foreign-born white.....	4,653	1,753	103	306	604	483	257	2,900	
Negro.....	673	336	6	41	138	104	47	337	
Indian.....	2,063	1,251	107	185	393	286	280	812	
Chinese, Japanese, and all other.....	25	16	2	5	6	3	9	

¹ Includes age unknown.

COMPOSITION AND CHARACTERISTICS.

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SUPPLEMENTAL TABLES FOR INDIAN POPULATION.

AGE, FOR THE STATE: 1920 AND 1910.

AGE PERIOD.	INDIANS.									AGE PERIOD.	INDIANS.									
	Number: 1920			Per cent: 1920			Per cent: 1910				Number: 1920			Per cent: 1920			Per cent: 1910			
	Total	Male.	Female.	Total	Male.	Female.	Total	Male.	Female.		Total	Male.	Female.	Total	Male.	Female.	Total	Male.	Female.	
All ages.....	32,980	17,028	15,961	100.0	100.0	100.0	100.0	100.0	100.0	20 to 44 years.....	10,212	5,375	4,887	31.0	31.6	30.3	30.2	29.8	30.6	
Under 5 years.....	4,540	2,245	2,304	13.8	13.2	14.4	15.2	14.7	15.6	45 years and over....	5,906	3,176	2,730	17.9	18.7	17.1	16.5	16.6	16.4	
Under 1 year.....	730	370	360	2.2	2.2	2.3	2.3	2.2	2.5	Age unknown.....	79	60	10	0.2	0.4	0.1	0.6	0.6	0.5	
5 to 9 years.....	4,748	2,372	2,376	14.4	13.9	14.9	14.7	14.7	14.7	18 to 44 years.....	11,569	6,063	5,496	35.0	35.6	34.4	34.4	34.0	34.8	
10 to 14 years.....	4,026	2,033	1,993	12.2	11.9	12.5	12.0	12.4	11.4	21 years and over....	15,394	8,215	7,170	46.7	48.2	45.0	44.6	44.5	44.7	
15 to 19 years.....	3,469	1,767	1,702	10.5	10.4	10.7	10.9	11.0	10.8											

SCHOOL ATTENDANCE, FOR THE STATE: 1920 AND 1910.

AGE PERIOD.	INDIANS: 1920				INDIANS: 1910				AGE PERIOD.	INDIANS: 1920				INDIANS: 1910						
	Total number.	Attending school.		Total number.	Attending school.		Total number.	Attending school.			Total number.	Attending school.		Total number.	Attending school.					
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.	Number.		Per cent.	Number.		Per cent.					
5 to 20 years, inclusive...	13,046	4,071	31.2	11,742	3,515	29.9	7 to 13 years.....	5,957	2,214	37.2	5,328	1,907	35.8	14 and 15 years.....	1,598	701	43.9	1,371	627	45.7
Male.....	6,568	2,122	32.3	6,135	1,974	32.2	16 and 17 years.....	1,207	491	37.9	1,251	456	36.5	18 to 20 years.....	2,150	412	19.2	1,990	336	16.9
Female.....	6,478	1,949	30.1	5,607	1,541	27.5														
5 and 6 years.....	2,044	253	12.4	1,802	189	10.5														

ILLITERACY, FOR THE STATE: 1920 AND 1910.

AGE PERIOD.	INDIANS: 1920				INDIANS: 1910				AGE PERIOD.	INDIANS: 1920				INDIANS: 1910						
	Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.			Total number.	Illiterate.		Total number.	Illiterate.					
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.	Number.		Per cent.	Number.		Per cent.					
10 years and over.....	23,692	16,068	67.8	20,488	14,939	72.9	21 years and over.....	15,304	11,714	76.1	13,030	10,951	84.0	Male.....	8,215	5,937	72.3	6,701	5,319	79.4
Male.....	12,411	8,089	65.0	10,625	7,209	68.4	Female.....	7,170	5,777	80.5	6,329	5,632	89.0	Female.....	7,170	5,777	80.5			
Female.....	11,281	7,999	70.9	9,803	7,670	77.8														
10 to 20 years.....	8,298	4,354	52.5	7,458	3,988	53.5														
Male.....	4,198	2,132	50.8	3,924	1,950	49.7														
Female.....	4,102	2,222	54.2	3,534	2,038	57.7														

SEX, ILLITERACY, AND VOTING AGE, FOR COUNTIES: 1920.

COUNTY.	TOTAL INDIANS.				INDIANS 10 YEARS OF AGE AND OVER.				INDIANS 21 YEARS OF AGE AND OVER.		
	Both sexes.	Per cent of total population.	Male.	Female.	Total number.	Illiterate.		Male.	Female.		
						Total number.	Percent.				
The state.....	32,989	9.9	17,028	15,961	23,692	16,068	67.8	8,215	5,937	7,179	5,777
Apache.....	7,850	59.5	3,990	3,800	5,339	4,694	87.9	1,044	1,458	1,409	1,411
Coconino.....	2,969	29.7	1,485	1,484	1,980	1,593	80.5	637	514	564	487
Gila.....	1,647	6.4	836	811	1,249	705	56.4	421	260	403	324
Graham.....	601	5.9	320	281	443	73	16.5	154	38	136	20
Maricopa.....	2,642	2.9	1,376	1,268	2,005	827	41.2	700	387	624	377
Mohave.....	714	13.6	371	343	594	382	55.9	224	163	203	161
Navajo.....	7,752	48.2	3,977	3,775	5,360	4,042	75.4	1,854	1,489	1,710	1,478
Pima.....	4,270	12.3	2,212	2,058	3,166	2,078	65.6	1,080	804	990	807
Pinal.....	3,102	19.2	1,635	1,467	2,388	1,096	45.9	924	515	740	490
Yavapai.....	420	1.7	226	194	254	163	46.0	147	80	106	65
Yuma.....	859	5.8	494	365	682	355	52.1	282	177	186	134
All other counties.....	163	0.2	106	87	132	110	83.3	58	62	28	23

¹ Comprises those counties in which less than 1 per cent of the population is Indian.

AGRICULTURE—ARIZONA.

INTRODUCTION.

In the following pages are presented all of the published results of the 1920 census of agriculture for this state and its counties, except certain detailed tabulations for the state which appear in Volume V of the Fourteenth Census Reports and a few minor items which have been published in special bulletins. The statistics of farms and farm property, including live stock, relate to January 1, 1920; those of live-stock

products, crops, and farm expenditures are for the calendar year 1919. In order to show the present tendency in agriculture, comparative figures for the census of 1910 are given throughout; and to show the general trend of the agricultural industry over a considerable period of time, all general farm information available is presented for the different censuses since 1870.

F FARMS AND FARM PROPERTY.

TABLE 1.—SUMMARY: 1920 AND 1910.

ITEM.	1920 (January 1)	1910 (April 15)	INCREASE. ¹	
			Amount.	Per cent.
Population, total.....	334,162	204,354	129,808	63.5
Rural ²	216,635	141,094	75,541	53.5
Urban.....	117,527	63,260	54,267	85.8
Per cent rural.....	64.8	69.0		
Number of farms.....	9,975	8,922	748	8.1
Approximate land area of the state.....acres	72,838,400	72,838,400		
All land in farms.....acres	5,802,126	1,246,613	4,555,513	365.4
Improved land in farms.....acres	712,803	350,173	362,630	103.6
Woodland in farms.....acres	523,648	100,061	423,587	423.3
Other unimproved land in farms.....acres	4,565,675	796,379	3,769,296	473.3
Per cent of land area in farms.....	8.0	1.7		
Per cent of farm land improved.....	12.3	28.1		
Average acreage per farm.....	581.7	135.1	446.6	330.6
Average improved acreage per farm.....	71.5	38.0	33.5	88.2
Value of all farm property.....	\$233,592,989	\$75,123,970	\$158,469,019	210.9
Land and buildings.....	172,325,321	47,285,310	125,040,011	264.4
Land alone.....	156,562,606	42,349,787	114,212,869	269.7
Buildings.....	15,762,715	4,935,573	10,827,142	219.4
Implements and machinery.....	8,820,667	1,787,790	7,032,877	393.4
Live stock.....	52,447,001	26,050,870	26,396,131	101.3
Average value per farm:				
All farm property.....	23,418	8,142	15,276	187.6
Land and buildings.....	17,276	5,125	12,151	237.1
Land alone.....	16,695	4,590	11,105	241.9
Buildings.....	1,580	535	1,045	195.3
Implements and machinery.....	884	194	690	355.7
Live stock.....	5,258	2,823	2,435	86.3
Average value per acre of land in farms:				
All farm property.....	40.26	60.26	-20.00	-33.2
Land and buildings.....	29.70	37.93	-8.23	-21.7
Land alone.....	26.98	33.97	-6.99	-20.6
Buildings.....	2.72	3.96	-1.24	-31.3
Implements and machinery.....	1.52	1.43	0.09	6.3
Live stock.....	9.04	20.90	-11.86	-56.7

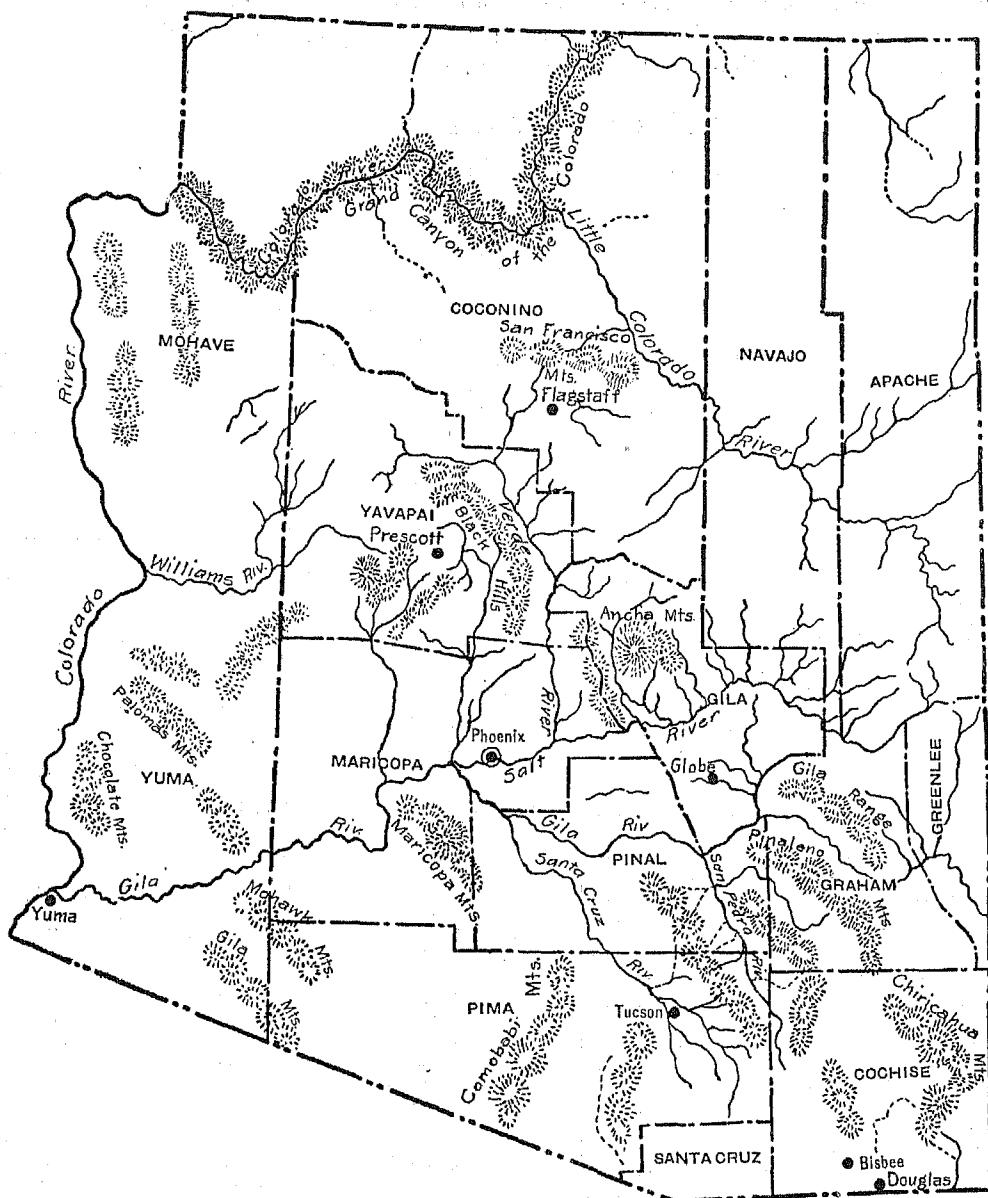
¹ A minus sign (—) denotes decrease.

² Population residing outside of incorporated places having 2,500 inhabitants or over. The rate of increase in the rural population between the two censuses is affected somewhat by the fact that certain places classified as rural in 1910 had become urban by 1920. The population in 1910 of the territory classified as rural in 1920 was 130,989. For this territory, the increase in population between 1910 and 1920 was 65.4 per cent, which percentage indicates the rate of growth of the rural population, leaving out of consideration the changes in classification of territory.

³ Individual schedules were secured in 1910 for Indians on reservations in a number of cases where the farming operations of the reservations were returned on a single schedule (as one farm) in 1920. As a result, 3,159 Indian farms were reported for 1910, as compared with 537 for 1920. This fact should be taken into account in comparing the total number of farms in the state for 1910 and 1920, since the number of farms in 1910, if the Indians had been reported in the same way as in 1920, would have been at least 2,000 less than that shown in this table.

ARIZONA

COUNTIES, PRINCIPAL CITIES, RIVERS, AND MOUNTAINS.



AGRICULTURE—ARIZONA.

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EXPLANATION OF TERMS.

To assist in securing comparability for its statistics of agriculture, the Bureau of the Census provided the enumerators with certain definitions and instructions, the more important of which were essentially as given below.

Farm.—A "farm" for census purposes is all the land which is directly farmed by one person managing and conducting agricultural operations, either by his own labor alone or with the assistance of members of his household or hired employees. The term "agricultural operations" is used as a general term, referring to the work of growing crops, producing other agricultural products, and raising domestic animals, poultry, and bees. A "farm" as thus defined may consist of a single tract of land or of a number of separate and distinct tracts, and these several tracts may be held under different tenures, as where one tract is owned by the farmer and another tract is hired by him. When a landowner has one or more tenants, renters, croppers, or managers, the land operated by each is considered a "farm."

In applying the foregoing definition of a "farm" for census purposes, enumerators were instructed to report as a "farm" any tract of 3 or more acres used for agricultural purposes, and also any tract containing less than 3 acres which produced at least \$250 worth of farm products in the year 1919, or required for its agricultural operations the continuous services of at least one person.

Farmer.—A "farmer" or "farm operator," according to the census definition, is a person who directs the operation of a farm. Hence owners of farms who do not themselves direct the farm operations are not reported as "farmers." Farmers are divided by the Bureau of the Census into three general classes according to the character of their tenure, namely, owners, managers, and tenants.

Farm owners include (1) farmers operating their own land only and (2) those operating both their own land and some land hired from others. The latter are sometimes referred to in the census reports as "part owners," the term "full owners" being then used for those owning all their land.

Managers are farmers who are conducting farm operations for the owner for wages or a salary.

Farm tenants are farmers who, as tenants, renters, or croppers, operate hired land only. They were reported in 1920 in five classes: (1) Share tenants—those who pay a certain share of the products, as one-half, one-third, or one-quarter, for the use of the farm but furnish their own farm equipment and animals; (2) croppers—share tenants who do not furnish their work animals; (3) share-cash tenants—those who pay a share of the products for part of the land rented by them and cash for part; (4) cash tenants—those who pay a cash rental, as \$7 per acre of crop land or \$500 for the use of the whole farm; (5) standing renters—those who pay a stated amount of farm products for the use of the farm, as 3 bales of cotton or 500 bushels of corn. In some cases the character of the tenancy was not ascertained by the enumerator; such tenants are designated "unspecified."

Farm land.—Farm land is divided into (1) improved land, (2) woodland, and (3) other unimproved land.

Improved land includes all land regularly tilled or mowed, land in pasture which has been cleared or tilled, land lying fallow, land in gardens, orchards, vineyards, and nurseries, and land occupied by farm buildings.

Woodland includes all land covered with natural or planted forest trees which produce, or later may produce, firewood or other forest products.

All other unimproved land includes brush land, rough or stony land, swamp land, and any other land which is not improved or in forest.

The census classification of farm land as "improved land," "woodland," and "other unimproved land" is one not always easy for the farmers or enumerators to make, and the statistics, therefore, must be considered at best only a close approximation.

NUMBER OF FARMS, ACREAGE, AND VALUE.

TABLE 2.—NUMBER OF FARMS AND FARM ACREAGE: 1870 TO 1920.

CENSUS YEAR.	FARMS.		LAND IN FARMS.				Per cent of land area in farms.	Per cent of farm land im- proved.		
	Num- ber.	Per cent of in- crease.	All land.		Improved land.					
			Acres.	Per cent of in- crease. ¹	Acres.	Per cent of in- crease.				
1920.....	9,975	8.1	5,802,126	365.4	712,803	103.6	8.0	12.3		
1910.....	9,227	58.8	1,240,613	-35.6	350,178	37.6	1.7	28.1		
1900.....	5,809	307.4	1,935,327	49.2	251,521	144.4	2.7	13.2		
1890.....	1,426	85.9	1,297,033	856.7	104,128	85.7	1.8	8.0		
1880.....	767	345.9	135,573	521.7	56,071	284.4	0.2	41.4		
1870 ²	172	.....	21,807	.....	14,585	.....	(8)	66.9

¹ A minus sign (—) denotes decrease.

² No data prior to 1870. Arizona organized as a territory in 1863.

^a Less than one-tenth of 1 per cent.

TABLE 3.—VALUE OF FARM PROPERTY: 1870 TO 1920.

CEN- SUS YEAR.	ALL FARM PROPERTY.		LAND AND BUILDINGS.		IMPLEMENT AND MACHINERY.		LIVE STOCK.	
	Value.	Per cent of increase. ¹	Value.	Per cent of increase.	Value.	Per cent of increase.	Value.	Per cent of increase.
1920.....	\$233,502,989	210.9	\$172,325,321	264.4	\$8,820,667	393.4	\$52,447,001	101.3
1910.....	75,123,970	150.5	47,285,310	245.6	1,737,790	133.6	26,050,870	67.6
1900.....	29,993,847	45.3	13,682,080	89.5	765,200	289.3	15,545,687	17.5
1890.....	20,040,203	366.3	7,222,230	540.3	106,580	121.3	13,227,453	311.9
1880.....	4,427,746	.....	1,127,946	773.9	88,811	452.2	3,210,989	.....
1870 ²	200,353	.....	129,072	.....	16,084	.....	115,197	.....

¹ Per cent not shown when more than 1,000.

² Computed gold values, being 80 per cent of the currency values reported. No data prior to 1870. Arizona organized as a territory in 1863.

TABLE 4.—AVERAGE ACREAGE AND AVERAGE VALUE PER FARM: 1870 TO 1920.

[Averages are based on "all farms" in the state.]

CENSUS YEAR.	AVERAGE ACREAGE PER FARM.		AVERAGE VALUE PER FARM.					
	All land.	Im- proved land.	All farm property.	Land and buildings.	Imple- ments and ma- chinery.	Live stock.		
1920.....	581.7	71.5	\$23,418	\$17,276	\$884	\$5,258		
1910.....	185.1	38.0	8,142	5,125	194	2,823		
1900.....	333.2	49.8	5,163	2,355	132	2,676		
1890.....	909.6	73.0	14,478	5,065	138	9,276		
1880.....	176.8	73.1	5,773	1,471	116	4,186		
1870 ¹	126.8	84.8	1,514	760	94	670		

¹ Computed gold values, being 80 per cent of the currency values reported. No data prior to 1870. Arizona organized as a territory in 1863.

TABLE 5.—AVERAGE VALUE PER ACRE: 1870 TO 1920.

[Averages are based on "all land in farms" in the state.]

CENSUS YEAR.	All farm property.	Land and buildings.	Land alone.	Buildings alone.	Implements and machinery.	Live stock.
1920.....	\$40.26	\$29.70	\$26.98	\$2.72	\$1.52	\$9.04
1910.....	60.26	37.93	33.97	3.06	1.43	20.90
1900.....	15.50	7.07	5.90	1.17	0.40	8.03
1890.....	15.92	5.57	.....	.....	0.15	10.20
1880.....	32.60	8.32	.....	.....	0.66	23.68
1870 ¹	11.94	5.92	.....	.....	0.74	5.28

¹ Computed gold values, being 80 per cent of the currency values reported. No data prior to 1870. Arizona organized as a territory in 1863.

AGRICULTURE—ARIZONA.

F FARMS BY SIZE.

TABLE 6.—NUMBER OF FARMS, BY SIZE: 1920 AND 1910.

SIZE GROUP.	NUMBER OF FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1920	1910	Num- ber.	Per cent.	1920	1910
Total.....	9,975	9,227	748	8.1	100.0	100.0
Under 20 acres.....	1,436	3,346	-1,910	-57.1	14.4	36.3
Under 3 acres.....	136	1,595	-1,459	-91.5	1.4	17.3
3 to 9 acres.....	564	912	-348	-38.2	5.7	9.9
10 to 19 acres.....	736	839	-103	-12.3	7.4	9.1
20 to 49 acres.....	2,367	1,477	890	60.3	23.7	16.0
50 to 99 acres.....	1,703	820	883	107.7	17.1	8.9
100 to 174 acres.....	2,239	2,591	-352	-13.0	22.4	28.1
175 to 499 acres.....	1,351	757	594	78.5	13.5	8.2
175 to 250 acres.....	372	263	109	41.4	3.7	2.9
250 to 499 acres.....	979	494	485	98.2	9.8	5.4
500 to 999 acres.....	478	164	314	191.5	4.8	1.8
1,000 acres and over.....	401	72	329	.....	4.0	0.8

¹ A minus sign (—) denotes decrease. Per cent not shown when base is less than 100.

TABLE 7.—NUMBER OF FARMS AND PER CENT DISTRIBUTION, BY SIZE: 1880 TO 1920.

SIZE GROUP.	1920	1910	1900	1890	1880	PER CENT OF ALL FARMS.	
						1920	1910
Total number of farms.....	9,975	9,227	5,809	1,428	767	100.0	100.0
Under 10 acres.....	700	2,507	1,532	30	17	7.0	27.2
10 to 19 acres.....	736	839	506	68	35	7.4	9.1
20 to 49 acres.....	2,367	1,477	922	198	56	23.7	16.0
50 to 99 acres.....	1,703	820	674	170	104	17.1	10.7
100 to 499 acres.....	3,590	3,348	1,992	906	528	36.0	34.3
500 to 999 acres.....	478	164	112	32	17	4.8	1.8
1,000 acres and over.....	401	72	71	13	10	4.0	0.8

TABLE 8.—FARM ACREAGE AND VALUE, BY SIZE OF FARM: 1920 AND 1910.

SIZE GROUP (ACRES).	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1920	1910	1920	1910	1920	1910
Total.....	5,802,126	1,246,613	712,803	350,173	\$172,325,321	\$47,285,310
Under 20.....	12,250	15,496	11,477	11,367	5,500,347	2,823,273
20 to 49.....	77,036	46,757	65,923	37,271	22,194,449	5,824,965
50 to 99.....	122,853	59,047	93,429	38,273	29,187,832	5,802,610
100 to 174.....	320,017	399,210	152,782	95,442	37,077,885	12,157,575
175 to 499.....	413,092	225,491	150,413	79,633	31,182,299	10,120,344
500 to 999.....	342,213	112,612	68,318	37,001	10,976,598	3,873,652
1,000 and over.....	4,504,765	388,000	170,461	48,186	36,115,011	6,822,881

TABLE 9.—PER CENT OF FARM LAND IMPROVED, AND AVERAGE VALUES, BY SIZE OF FARM: 1920 AND 1910.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.	AVERAGE VALUE OF LAND AND BUILDINGS.					
		Per farm.		Per acre.		1920	1910
		1920	1910	1920	1910		
Total.....	12.3	28.1	\$17,276	\$5,125	\$29.70	\$37.93	
Under 20 acres.....	93.7	92.7	3,893	784	456.35	169.29	
20 to 49 acres.....	85.6	79.7	9,377	3,944	288.10	124.58	
50 to 99 acres.....	76.0	64.8	17,139	7,150	237.58	99.29	
100 to 174 acres.....	46.4	23.9	16,580	4,692	112.69	30.45	
175 to 499 acres.....	36.3	35.3	23,081	13,369	75.82	44.88	
500 to 999 acres.....	20.0	32.9	22,981	23,620	32.08	34.40	
1,000 acres and over.....	3.8	12.4	90,065	94,762	8.02	17.58	

F FARMS BY TENURE.

TABLE 10.—NUMBER OF FARMS, BY TENURE: 1920 AND 1910.

TENURE.	NUMBER OF FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1920	1910	Num- ber.	Per cent.	1920	1910
Total.....	9,975	9,227	748	8.1	100.0	100.0
Owners.....	7,869	8,203	-334	-4.1	78.9	88.9
Owning entire farm.....	6,970	7,759	-789	-10.2	69.9	84.1
Hiring additional land.....	899	444	455	102.5	9.0	4.8
Managers.....	305	163	142	87.1	3.1	1.8
Tenants.....	1,801	861	940	109.2	18.1	9.3
Share tenants.....	887	272	615	226.1	8.9	2.9
Share-cash tenants.....	27	18	9	.....	0.3	0.2
Cash tenants.....	853	406	387	83.0	8.6	5.1
Unspecified.....	34	105	-71	-67.6	0.3	1.1

¹ A minus sign (—) denotes decrease. Per cent not shown when base is less than 100.

TABLE 11.—NUMBER OF FARMS AND PER CENT DISTRIBUTION, BY TENURE: 1880 TO 1920.

TENURE.	1920	1910	1900	1890	1880	PER CENT OF ALL FARMS.	
						1920	1910
Total number of farms.....	9,975	9,227	5,809	1,428	767	100.0	100.0
Farms operated by owners.....	7,869	8,203	4,985	1,313	1,666	78.9	88.9
Owning entire farm.....	6,970	7,759	4,794	1,313	1,666	89.9	84.1
Hiring additional land.....	899	444	191	191	191	4.8	4.8
Farms operated by managers.....	305	163	335	335	335	3.1	1.8
Farms operated by tenants.....	1,801	861	489	113	113	18.1	10.1
Share tenants.....	887	272	189	189	189	8.9	5.9
Share-cash tenants.....	27	18	9	9	9	0.3	0.2
Cash tenants.....	853	406	300	51	51	8.6	5.5
Unspecified.....	34	105	51	51	51	0.3	0.2
Per cent of all farms.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Operated by owners.....	78.9	88.9	85.8	1,92.1	1,86.8	78.9	88.9
Owning entire farm.....	69.9	84.1	82.5	1,92.1	1,86.8	69.9	84.1
Hiring additional land.....	9.0	4.8	3.3	1,92.1	1,86.8	9.0	4.8
Operated by managers.....	3.1	1.8	5.8	3.1	3.1	3.1	1.8
Operated by tenants.....	18.1	9.3	8.4	7.9	7.9	13.2	13.2
Share and share-cash.....	8.2	3.1	3.3	4.3	4.3	7.7	7.7
Cash and unspecified.....	8.9	6.2	5.2	3.6	3.6	5.5	5.5

¹ Includes farms operated by managers.

² Not reported separately.

³ Included with farms operated by owners.

TABLE 12.—FARM ACREAGE AND VALUE, BY TENURE: 1920 AND 1910.

TENURE.	ALL LAND IN FARMS (ACRES).	IMPROVED LAND IN FARMS (ACRES).	VALUE OF LAND AND BUILDINGS.		
			1920	1910	1920
Total.....	5,802,126	1,246,613	712,803	350,173	\$172,325,321
Owners.....	3,810,651	874,914	442,010	254,439	105,646,848
Managers.....	1,390,949	264,798	119,215	35,871	30,826,729
Tenants.....	591,526	106,901	151,578	59,363	35,851,744

TABLE 13.—PER CENT DISTRIBUTION OF FARMS AND OF FARM ACREAGE AND VALUE, BY TENURE: 1920 AND 1910.

TENURE.	NUMBER OF FARMS.	ALL LAND IN FARMS.	IMPROVED LAND IN FARMS.		VALUE OF LAND AND BUILDINGS.	
			1920	1910	1920	1910
Total.....	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	78.9	88.9	65.8	70.2	62.0	72.7
Managers.....	3.1	1.8	24.0	21.2	16.7	10.2
Tenants.....	18.1	9.3	10.2	8.6	21.3	17.1

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TABLE 14.—AVERAGE ACREAGE, PER CENT OF FARM LAND IMPROVED, AND AVERAGE VALUES, BY TENURE: 1920 AND 1910.

TENURE.	AVERAGE ACREAGE PER FARM.				PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.				Per farm.		Per acre.	
	1920	1910	1920	1910	1920	1910	1920	1910	1920	1910
Total.....	581.7	135.1	71.5	38.0	12.3	28.1	\$17,276	\$5,125	\$29,70	\$37.93
Owners.....	485.4	106.7	56.2	31.0	11.6	29.1	13,426	4,047	27.66	37.94
Managers.....	4,500.5	1,624.5	390.9	220.1	8.8	13.5	101,071	35,587	22.16	21.91
Tenants.....	328.4	124.2	84.2	69.5	25.6	56.0	19,907	9,620	60.01	77.59

F FARMS BY SEX, RACE, AND NATIVITY OF FARMER.

TABLE 15.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY SEX AND TENURE OF FARMER: 1920.

SEX AND TENURE.	Number of farms.	AVERAGE PER FARM.			Value of land and buildings.
		All land in farms (acres).	Improved land in farms (acres).	Value of land and buildings.	
		All land (acres).	Improved land (acres).	Value of land and buildings.	
Total.....	8,875	5,802,126	712,803	\$172,325,321	581.7
Male.....	9,608	5,727,308	697,010	169,408,458	596.1
Female.....	307	74,820	15,793	2,856,803	203.9
Owners.....	7,869	3,819,651	442,010	105,646,848	485.4
Male.....	7,519	3,746,731	426,758	102,028,903	498.3
Female.....	350	72,920	15,252	2,717,945	208.3
Managers.....	305	1,390,949	119,215	30,826,729	4,560.5
Male.....	305	1,390,949	119,215	30,826,729	4,560.5
Female.....	.....	.....	.....	.....	.....
Tenants.....	1,801	591,528	151,578	35,851,744	328.4
Male.....	1,784	589,628	151,037	35,712,826	330.5
Female.....	17	1,900	541	138,918	111.8

TABLE 16.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY NATIVITY OF WHITE FARMERS AND BY RACE OF COLORED FARMERS: 1920 AND 1910.

COLOR AND NATIVITY OR RACE.	NUMBER OF FARMS.		LAND IN FARMS, 1920 (ACRES).		Value of land and buildings, 1920
	1920	1910	Total.	Improved.	
All farmers.....	9,975	19,227	5,802,126	712,803	\$172,325,321
White farmers.....	9,329	6,024	5,741,704	693,184	168,908,633
Native ²	8,262	5,218	5,310,845	614,006	152,778,411
Foreign-born.....	1,067	906	430,859	79,178	16,125
Country of birth:					
Austria.....	47	25	7,494	1,874	308,440
Canada.....	98	86	191,007	9,776	2,344,060
Denmark.....	81	51	9,474	7,772	2,382,800
England.....	75	95	41,729	5,804	1,018,125
Germany.....	102	116	20,777	9,181	1,839,695
Ireland.....	44	45	10,714	2,230	540,510
Italy.....	39	24	5,890	2,014	646,117
Mexico.....	280	(*)	46,716	13,551	2,318,575
Russia.....	101	3	5,056	4,219	1,233,220
Sweden.....	35	28	5,926	1,362	425,400
Switzerland.....	41	40	10,810	4,088	911,450
Other countries.....	144	293	75,268	17,309	2,096,230
Colored farmers.....	646	1,3,203	60,422	19,619	3,421,688
Negro.....	32	12	3,248	1,556	277,700
Indian.....	537	1,3,159	52,825	14,015	1,702,833
Japanese.....	69	5	3,527	3,286	1,271,155
Chinese.....	8	27	822	702	170,000

¹ Individual schedules were secured in 1910 for Indians on reservations in a number of cases where the farming operations of the reservation were returned on a single schedule (as one farm) in 1920. As a result, 3,159 Indian farms were reported for 1910, as compared with 537 for 1920. This fact should be taken into account in comparing the total number of farms in the state for 1910 and 1920, since the number of farms in 1910, if the Indians had been reported in the same way as in 1920, would have been at least 2,000 less than that shown in the table.

² Includes farmers with country of birth not reported, as follows: For 1920, 180; for 1910, 11.

³ Included with "other countries"; 206 farmers were reported for 1910 as born in non-European countries other than Canada.

TABLE 17.—NUMBER OF FARMERS, CLASSIFIED BY TENURE, COLOR, AND NATIVITY: 1920 AND 1910.

TENURE.	ALL FARMERS.		NATIVE WHITE.		FOREIGN-BORN WHITE.		COLORED.	
	1920	1910	1920	1910	1920	1910	1920	1910
Total.....	9,975	9,227	8,262	5,218	1,067	806	646	3,203
Owners.....	7,569	8,203	6,482	4,410	834	644	553	3,149
Managers.....	305	163	270	125	30	27	5	11
Tenants.....	1,801	861	1,510	683	203	135	88	43

¹ Includes farmers with country of birth not reported.

F FARM MORTGAGES.

TABLE 18.—MORTGAGED FARMS: 1920 AND 1910.

[Owned farms only; includes all farms owned in whole or in part by the operator.]

CLASS.	NUMBER OF OWNED FARMS.		INCREASE. ¹		PER CENT OF TOTAL.	
	1920	1910	Number.	Per cent.	1920	1910
Total.....	7,869	8,203	-334	-4.1	100.0	100.0
Free from mortgage.....	3,708	7,038	-3,330	-47.3	47.1	85.8
Mortgaged.....	3,980	1,043	2,337	224.1	43.0	12.7
Unknown.....	781	122	659	540.2	0.0	1.5

¹ A minus sign (−) denotes decrease. The comparative figures shown for farms free from mortgage and mortgaged are affected somewhat by the fact that more farms were tabulated as "unknown" in 1920 than in 1910.

TABLE 19.—MORTGAGED FARMS (OR FARM HOMES): 1890 TO 1920.

CLASS.	OWNED FARMS.		OWNED FARM HOMES.		PER CENT OF TOTAL.			
	1920	1910	1900	1890	1920	1910	1900	1890
Total.....	7,869	8,203	6,452	1,842	100.0	100.0	100.0	100.0
Free from mortgage.....	3,708	7,038	5,924	1,716	47.1	85.8	91.8	93.2
Mortgaged.....	3,980	1,043	380	126	43.0	12.7	5.9	6.8
Unknown.....	781	122	148	.....	9.9	1.5	2.3	.....

TABLE 20.—MORTGAGE DEBT: 1920 AND 1910.

ITEM.	OWNED FARMS MORTGAGED. ¹		INCREASE.	
	1920	1910	Amount.	Per cent.
Number of farms reporting amount of debt.....	2,876	813	2,063	253.8
Value of land and buildings.....	\$50,452,080	\$8,695,498	\$41,757,401	480.2
Amount of mortgage debt.....	\$15,048,280	\$2,253,232	\$13,305,028	594.5
Ratio of debt to value, per cent.....	31.0	25.9	.....	.....
Average rate of interest paid, per cent.....	7.5	.....	.....	.....
Average value per farm.....	\$17,543	\$10,698	\$6,847	64.0
Average debt per farm.....	\$5,441	\$2,772	\$2,669	96.3
Average equity per farm.....	\$12,102	\$7,924	\$4,178	52.7

¹ Includes only farms consisting wholly of owned land and reporting amount of debt. In considering the comparative figures it should be borne in mind that the mortgage debt may have been more completely reported at one census than at the other.

F FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED.

TABLE 21.—FARMS REPORTING EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

ITEM.	NUMBER OF FARMS REPORTING.		INCREASE.		PER CENT OF ALL FARMS.	
	1919	1909	Number.	Per cent. ¹	1919	1909
Labor.....	5,639	3,300	2,339	70.9	56.5	35.8
Fertilizer.....	126	33	93	1.3	0.4	.....
Feed.....	4,906	2,714	2,192	80.8	49.2	29.4

¹ Per cent not shown when base is less than 100.

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TABLE 22.—AMOUNT OF EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

ITEM.	AMOUNT EXPENDED.		INCREASE.	
	1919	1909	Amount.	Per cent.
Labor, total.....	\$8,442,276	\$2,504,984	\$5,937,292	237.0
Amount in cash.....	7,663,620	2,061,462	5,602,158	271.8
Value of rent and board furnished.....	778,656	443,522	335,134	75.6
Fertilizer.....	40,892	6,080	34,812	572.6
Feed.....	2,059,855	541,371	1,518,484	280.5

LIVE STOCK ON FARMS AND ELSEWHERE.

(DOMESTIC ANIMALS, POULTRY, AND BEES.)

Domestic animals: 1920 and 1910.—The census of 1920 was taken as of January 1 and that of 1910 as of April 15. Since a great many domestic animals are born during the period between January 1 and April 15 and, on the other hand, a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not fully comparable. In addition to the change in the date of enumeration, there have been certain changes in the age and sex classifications. The 1910 figures presented in the following tables are therefore restricted to those classes of domestic animals which are least affected by these changes and for which the figures are fairly comparable with the 1920 returns.

Dairy cows: 1920 and 1910.—In 1910 the census called for "cows and heifers kept for milk" and "cows and heifers not kept for milk." The instructions read: "Report as cows kept for milk those whose milk is used in some form for human food. Cows milked for three months during the year should be reported as *kept for milk*, although a part of the year they run with their calves."

In 1920 the census called for "dairy cattle" and "beef cattle." Dairy cattle were defined as those "kept mainly for milk production," and the following instructions were given the enumerators: "Classify all cattle as beef cattle or as dairy cattle according to the principal purpose for which they are kept." It is believed that under this rule the fully established dairy and beef breeds have been properly reported, with few errors, and that cattle of the dual-purpose breeds or of no definite breeding have been placed in one class or the other, according to the principal purpose for which they are kept.

In states where cattle are raised extensively for beef production the result of this new classification will be to reduce materially the proportion of cows classified as dairy cows, and even in states having few strictly beef cattle the 1920 classification may be expected to give a somewhat smaller proportion of dairy cows than the 1910 classification.

In Arizona the number of "dairy cows," including heifers 1 year old and over, reported for January 1, 1920, was 39,387, as compared with 28,862 "cows

"kept for milk" reported for April 15, 1910. This represents an increase of 10,525, or 36.5 per cent. The number of "beef cows" reported for January 1, 1920, was 505,977, as compared with 384,091 "cows not kept for milk" reported for April 15, 1910, representing an increase of 121,886, or 31.7 per cent. The percentage of increase shown for dairy cows would have been even larger, except for the change in classification mentioned above, and the percentage of increase shown for beef cows correspondingly smaller.

Farms reporting domestic animals: 1910.—Horses were reported by 8,309 farms in Arizona in 1910, mules by 1,194 farms, cattle by 6,225, sheep by 1,627, and swine by 1,681. In comparing these figures with the 1920 figures given in the table below, due allowance should be made for the fact that the total number of farms in Arizona increased from 9,227 in 1910 to 9,975 in 1920.

TABLE 23.—DOMESTIC ANIMALS ON FARMS: 1920.

CLASS.	FARMS REPORTING.		ANIMALS.		
	Number.	Per cent of all farms.	Number.	Value.	Average value.
			Total.....	9,355	93.8
Horses, total.....	8,500	85.2	136,167	5,744,671	\$42.19
Colts under 1 year of age.....	2,134	21.4	15,319	289,976	18.93
Colts 1 year old and under 2 years.....	1,880	18.6	8,318	215,475	25.90
Mares 2 years old and over.....	6,063	60.8	59,689	2,342,209	39.24
Geldings 2 years old and over.....	6,898	69.2	38,238	2,424,631	63.41
Stallions 2 years old and over.....	602	6.0	3,898	191,145	56.25
Unclassified.....	157	1.6	11,207	281,235	25.09
Mules, total.....	2,884	28.7	11,992	1,415,397	118.03
Mule colts under 1 year of age.....	261	2.6	515	28,709	55.75
Mule colts 1 year old and under 2 years.....	283	2.8	1,040	69,174	65.94
Mules 2 years old and over.....	2,457	24.6	10,423	1,317,514	126.34
Asses and burros.....	500	5.0	5,240	68,886	13.15
Cattle, total.....	7,768	77.9	821,918	35,500,759	42.19
Beef cattle, total.....	3,505	35.1	768,197	31,930,866	41.57
Calves under 1 year of age.....	2,716	27.2	153,137	3,883,698	25.36
Heifers 1 year old and under 2 years.....	2,040	20.5	76,497	2,797,735	36.57
Cows and heifers 2 years old and over.....	2,798	28.1	429,480	19,157,411	44.61
Steers 1 year old and under 2 years.....	1,387	13.7	41,165	1,687,459	40.90
Steers 2 years old and over.....	783	7.8	41,819	2,339,416	55.94
Bulls 1 year old and over.....	1,654	16.6	22,774	1,910,007	83.87
Unclassified.....	67	0.7	3,325	156,140	40.66
Dairy cattle, total.....	5,611	56.3	53,721	3,569,893	66.45
Calves under 1 year of age.....	2,821	28.3	13,293	256,158	19.27
Heifers 1 year old and under 2 years.....	1,580	15.0	7,768	318,197	40.96
Cows and heifers 2 years old and over.....	5,433	54.5	31,019	2,855,519	90.31
Bulls 1 year old and over.....	787	7.9	1,041	140,019	134.50
Sheep, total.....	780	7.6	881,914	7,123,719	8.08
Lambs under 1 year of age.....	374	3.7	118,770	823,094	6.04
Ewes 1 year old and over.....	511	5.1	531,818	4,042,953	9.29
Rams 1 year old and over.....	316	3.2	37,880	447,280	11.81
Wethers 1 year old and over.....	95	1.0	59,411	247,494	4.17
Unclassified.....	166	1.7	184,029	661,998	4.94
Goats, total.....	242	2.4	161,124	816,793	5.07
Kids under 1 year of age, raised for fleeces.....	68	0.7	22,808	122,417	5.37
Goats 1 year old and over, raised for fleeces.....	98	1.0	71,138	441,430	6.21
All other goats.....	154	1.5	67,188	252,946	3.77
Swine, total.....	4,022	40.3	49,599	885,590	17.85
Pigs under 6 months old.....	2,419	24.3	24,035	204,181	8.19
Sows and gilts for breeding, 6 months old and over.....	2,036	20.4	9,811	278,199	28.36
Boars for breeding, 6 months old and over.....	634	6.4	843	40,450	47.98
All other hogs, 6 months old and over.....	1,793	18.0	14,010	362,810	25.90

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TABLE 24.—POULTRY AND BEES ON FARMS: 1920 AND 1910.

ITEM.	FARMS REPORTING, 1920.		NUMBER REPORTED: ¹		Value, 1920	Ave- rage value, 1920 ²
	Num- ber.	Per cent of all farms.	1920 (Jan. 1)	1910 (Apr. 15)		
Poultry, total.....	7,884	79.0	517,312	268,762	\$840,595	\$1.24
Chickens.....	7,844	78.6	495,065	252,057	575,510	1.16
Turkeys.....	1,554	15.6	13,937	5,498	57,029	4.09
Ducks.....	360	3.6	2,110	1,824	2,741	1.30
Geese.....	161	1.6	716	701	1,868	2.61
Guinea fowls.....	278	2.8	1,987	461	2,038	1.03
Pigeons.....	191	1.9	3,408	3,568	1,181	0.34
Ostriches.....	1	(*)	23	4,028	230	10.00
Hives of bees.....	809	8.1	28,174	23,770	250,591	8.89

¹ The numbers of the different classes of poultry are not strictly comparable for the two censuses, since a considerable number of fowls are killed between Jan. 1 and Apr. 15.

² Includes a small number of peafowls.

³ Less than one-tenth of 1 per cent.

TABLE 25.—SELECTED CLASSES OF DOMESTIC ANIMALS ON FARMS: 1920 AND 1910.

CLASS.	NUMBER.		INCREASE: ¹	
	1920 (Jan. 1)	1910 (Apr. 15)	Num- ber.	Per cent.
Horses:				
Total, excluding spring colts reported for 1910.....	2 136,167	2 93,803	42,364	45.2
Colts under 1 year old on Jan. 1 of census year.....	15,319	11,276	4,043	35.9
Horses 1 year old and over on Jan. 1 of census year.....	109,841	74,788	34,853	46.6
Mules:				
Total, excluding spring colts reported for 1910.....	11,992	3,845	8,147	211.9
Mule colts under 1 year old on Jan. 1 of census year.....	515	338	177	52.4
Mules 1 year old and over on Jan. 1 of census year.....	11,477	3,507	7,970	227.3
Cattle:				
Total, excluding spring calves reported for 1910.....	2 821,918	2 767,042	54,876	7.2
Calves under 1 year old on Jan. 1 of census year.....	166,430	179,667	-13,237	-7.4
Cows and heifers 1 year old and over on Jan. 1 of census year.....	545,364	412,953	132,411	32.1
Steers and bulls 1 year old and over on Jan. 1 of census year.....	106,799	91,575	15,224	16.6
Sheep:				
Total, excluding spring lambs reported for 1910.....	881,914	916,000	-34,686	-3.8

¹ A minus sign (—) denotes decrease.

² Includes animals not classified.

TABLE 26.—DOMESTIC ANIMALS NOT ON FARMS: 1920 AND 1910.

CLASS.	INCLOSURES REPORTING.		ANIMALS.			
			Number.		Increase: ¹	
	1920 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	1910 (Apr. 15)	Num- ber.	Per cent.
Total.....	3,103	5,153	.....	.....	.....	.....
Horses.....	1,915	4,374	6,107	15,031	-8,924	-59.4
Horses 1 year old and over on Jan. 1 of census year.....	.....	.....	5,941	14,032	-8,091	-57.7
Mules.....	308	290	1,503	1,321	182	13.8
Mules 1 year old and over on Jan. 1 of census year.....	.....	.....	1,478	1,285	193	15.0
Asses and burros.....	202	643	876	2,878	-2,002	-69.6
Cattle.....	1,451	1,222	8,378	8,529	-151	-1.8
Cattle 1 year old and over on Jan. 1 of census year.....	.....	.....	6,771	5,554	1,217	21.9
Sheep.....	59	31	777	1,131	-354	-31.3
Goats.....	89	115	988	12,770	-11,791	-92.3
Swine.....	416	224	2,017	1,304	713	54.7

¹ A minus sign (—) denotes decrease.

TABLE 27.—TOTAL NUMBER OF DOMESTIC ANIMALS: 1920.

CLASS.	Total.	On farms.	Not on farms.
Horses.....	1 142,274	1 138,167	6,107
Horses 2 years old and over.....	107,075	101,323	5,752
Mules.....	13,495	11,992	1,508
Mules 2 years old and over.....	11,815	10,428	1,387
Asses and burros.....	6,116	5,240	876
Cattle.....	830,296	821,918	8,378
Beef cattle.....	773,216	768,197	5,019
Dairy cattle.....	57,080	53,721	3,359
Dairy cows.....	34,091	31,619	2,472
Sheep.....	882,691	881,914	777
Goats.....	162,112	161,124	988
Swine.....	51,616	49,599	2,017

¹ Includes animals not classified.

LIVE-STOCK PRODUCTS.

Farm value of live-stock products: 1919 and 1909.—The Thirteenth Census schedule called for the total value as well as the total quantity of all live-stock products, whether sold or consumed on the farm. The 1909 values are therefore based directly on the reported figures. But in the Fourteenth Census schedule the question as to value in the case of dairy products, eggs, and chickens was restricted to the amounts sold. The 1919 value of butter made on farms has been computed on the basis of the average value received per pound for butter sold; the values of eggs produced and chickens raised have been computed in a similar way. The values of cheese made on farms and of honey and wax produced have been computed on the basis of average values per pound secured through the Bureau of Crop Estimates of the Department of Agriculture. The method of obtaining these average values was the same as that used for securing average values for the important crops, which is described in a later paragraph.

Dairy products.—It is difficult to secure reports of the total quantity of milk produced during a given year, especially from farmers who keep cows chiefly to supply milk and butter for family use. Since such farmers usually keep no records, they are able to make only rough estimates of the milk production, and frequently underestimate the quantity of milk produced for home use. Many farmers, too, either because they are unwilling to make any estimates or for other reasons, fail to report their milk production, even though they report butter or other dairy products as well as dairy cows.

For several decades past the Bureau of the Census has made estimates for such incomplete reports, where the farmer reported "cows kept for milk" but failed to report the amount of milk produced, these estimates being based on the average production per cow as shown by the complete reports. Since farmers with first-class dairy herds and up-to-date methods are more likely to make complete reports than those with cows of a lower grade, the estimates obtained in this way have probably been somewhat above the

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actual production. With the new basis of classification for dairy cows in use for 1920, however, as already noted, the estimates should be more satisfactory than heretofore, since milk will be estimated only for cows kept mainly for milk production.

In the table which follows, both the actual reported quantity of milk produced and the estimated total are given. The latter includes, in addition to the milk reported, an estimate of the amount of milk produced on farms which reported dairy cows but failed to report any milk. A certain quantity of milk, on the other hand, was reported from farms which reported no dairy cows. This is included in the total and may represent either milk produced by beef cows milked a part of the year on farms having no dairy cows or milk produced on farms which kept dairy cows some time during the year 1919 but had none on January 1, 1920. It may be safely assumed that the returns for butter and cheese made on farms and for milk, cream, butter fat, and butter sold are much more nearly complete than in the case of milk produced. Hence no estimates have been made for these items.

TABLE 28.—DAIRY COWS ON FARMS, 1920; AND DAIRY PRODUCTS, 1919 AND 1909.

ITEM.	FARMS REPORTING.		Number or quantity.	Unit.	Value.
	Number.	Per cent of all farms.			
Dairy cows on farms Jan. 1, 1920, total.....	5,433	54.5	31,619	Head.....	
On farms reporting milk produced.....	4,241	42.5	28,242	Head.....	
On farms not reporting milk produced.....	1,192	11.9	3,377	Head.....	
Average production of milk per dairy cow, 1919.....			433	Gals.....	
Specified dairy products:					
Milk, as reported, 1919.....	12,408,592		Gals.....		
1909.....	6,881,608		Gals.....		
Increase, 1909-1919.....	6,026,984		Gals.....		
Per cent of increase.....	87.6				
Total production of milk, including estimates, 1919.....	14,370,833		Gals.....		
Butter made, 1919.....	2,846	28.5	593,446	Lbs.....	\$336,146
1909.....	1,503	17.0	325,980	Lbs.....	\$105,347
Cheese made, 1919.....	139	1.4	90,119	Lbs.....	\$37,851
1909.....	97	1.1	60,690	Lbs.....	\$39,115
Milk sold, 1919.....	1,216	12.2	6,707,170	Gals.....	\$1,781,360
1909.....	515	5.6	3,347,723	Gals.....	\$573,005
Cream sold, 1919.....	174	1.7	92,089	Gals.....	\$131,988
1909.....	57	0.6	37,744	Gals.....	\$37,280
Butter fat sold, 1919.....	462	4.6	762,599	Lbs.....	\$457,984
1909.....	286	3.1	665,850	Lbs.....	\$184,574
Butter sold, 1919.....	897	9.0	193,597	Lbs.....	\$109,812
1909.....	453	4.9	120,051	Lbs.....	\$39,924
Value of milk, cream, and butter fat sold, and of butter and cheese made, 1919.....			\$2,745,329		
Increase, 1909-1919.....			\$909,411		
Per cent of increase.....			\$1,885,918		
Receipts from sale of dairy products, 1919.....			201.9		
1909.....			\$2,461,144		
Per cent of increase.....			\$842,210		
1909.....			\$1,638,934		
Increase, 1909-1919.....			194.6		

¹ Based on the 1919 milk production as reported for dairy cows, and the number of dairy cows on hand Jan. 1, 1920.

² This item represents the total farm value of dairy products, excluding milk and cream consumed as such on the farm where produced.

³ Figures for 1919 do not include "cheese sold," as that item was not reported for 1919. The value of cheese sold in 1909 was \$7,837.

TABLE 29.—SHEEP ON FARMS, 1920 AND 1910; GOATS ON FARMS, 1920; AND WOOL AND MOHAIR PRODUCED, 1919 AND 1909.

ITEM.	Farms reporting.	Number of sheep (or goats) on hand.	WOOL (OR MOHAIR) PRODUCED.		
			Number of animals shorn.	Weight (pounds).	Value.
Sheep on farms Jan. 1, 1920, total.....	760	881,914	.....	.....	.....
On farms reporting wool.....	323	765,739	.....	.....	.....
On farms not reporting wool.....	437	176,175	.....	.....	.....
Sheep of shearing age ¹ on farms Apr. 15, 1910.....	1,161	916,600	.....	.....	.....
Wool produced, as reported, total.....	332	.....	586,226	2,509,875	\$1,149,474
On farms reporting sheep.....	323	.....	584,973	2,504,802	\$1,146,611
On farms not reporting sheep.....	9	.....	1,253	5,273	\$2,863
Total production of wool, including estimates.....	1919.....	.....	.....	3,130,795	\$1,440,166
1909.....	.....	.....	.....	5,503,800	\$983,761
Increase, 1909-1919 ².....	.....	.....	.....	-2,373,005	\$456,405
Per cent of increase ².....	.....	.....	.....	-43.1	46.4
Goats raised for fleeces, on farms Jan. 1, 1920.....	107	93,941	.....	.....	.....
Mohair produced, as reported, total.....	1919.....	60	94,558	357,626	\$192,351
1909.....	114	.....	.....	246,032	\$63,120

¹ Sheep born before Jan. 1, 1910.

² A minus sign (-) denotes decrease.

TABLE 30.—CHICKENS (OR FOWLS) ON FARMS, 1920 AND 1910; AND POULTRY PRODUCTS, 1919 AND 1909.

[The products shown for 1919 include chicken eggs and chickens only, while the 1909 figures include the products of all kinds of poultry.]

ITEM.	FARMS REPORTING.		Number or quantity.	Value.
	Number.	Per cent of all farms.		
Chickens on farms Jan. 1, 1920, total.....	7,844	78.6	Number.	.....
On farms reporting eggs produced.....	6,259	62.7	405,065	.....
On farms reporting chickens raised.....	4,242	42.5	418,488	.....
Fowls on farms Apr. 15, 1910.....	5,040	54.6	315,307	.....
Eggs produced, as reported.....	1919.....	6,303	Dozens.	2,143,533
1909.....	.....	.....	63.2	\$1,008,851
Total production of eggs, including estimates.....	1919.....	.....	.....	2,524,832
1909.....	.....	.....	.....	1,744,081
Eggs sold, as reported.....	1919.....	3,618	Dozen.	1,320,387
1909.....	2,228	24.1	820,377	605,040
Chickens raised, as reported.....	1919.....	4,274	Number.	1,320,387
1909.....	.....	.....	42.8	365,633
Total chickens raised, including estimates.....	1919.....	.....	.....	320,410
1909.....	.....	.....	.....	512,393
Chickens sold, as reported.....	1919.....	2,323	Number.	147,510
1909.....	1,952	21.2	392,286	131,781
1909.....	.....	.....	.....	85,277

TABLE 31.—BEES ON FARMS, 1920 AND 1910; AND HONEY AND WAX PRODUCED, 1919 AND 1909.

ITEM.	Farms reporting.	Hives of bees.	PRODUCT.	
			Quantity (pounds).	Value.
Bees on farms Jan. 1, 1920, total.....	800	28,174	.....	.....
On farms reporting honey.....	487	24,099	.....	.....
On farms not reporting honey.....	322	4,075	.....	.....
Bees on farms Apr. 15, 1910.....	441	23,770	.....	.....
Honey produced.....	1919.....	488	.....	926,621
1909.....	278	.....	24,099	\$213,123
Wax produced.....	1919.....	10,783	1,025,282	53,298
1909.....	15,012	.....	15,012	4,563
1909.....	.....	.....	15,012	3,905

CROPS.

Summary: 1919 and 1909.—This section summarizes the census data relative to all of the farm crops of 1919 and 1909, including the number of farms reporting each crop, and the percentage of increase for the decade in acreage, production, and value.

In comparing one year with another it should be borne in mind that the acreage of crops (or the number

of fruit trees) and the number of farms reporting are on the whole a better index of the general changes or tendencies in agriculture than either the quantity or the value of the crops, since variations in quantity may be due mainly to favorable or unfavorable seasons, and variations in the value of the crops may result largely from changes in prices between one census year and the next.

TABLE 32.—SUMMARY FOR ALL CROPS: 1919 AND 1909.

CROP.	F FARMS REPORTING.				ACRES HARVESTED.			PRODUCTION.							
	Number.		Per cent of all farms.		1919	1909	Per cent of increase. ¹	Quantity.			Value.				
	1919	1909	1919	1909				Unit.	1919	1909	Per cent of increase. ¹	1919	1909	Per cent of increase. ¹	
All crops.....					2,441,712	190,058	131.3					\$42,481,230	\$5,434,664	681.7	
With acreage reports.....												40,118,635	4,913,226	711.6	
With no acreage reports.....												2,362,595	491,433	330.8	
Cereals, total.....															
Corn.....	2,074	2,266	20.8	21.6		138,898	75,369	68.6	Bu.	3,172,549	1,878,960	68.8	5,464,931	1,570,853	247.9
Oats.....	573	315	5.7	3.4		22,160	15,605	41.9	Bu.	446,208	298,064	49.4	870,105	293,847	196.1
Wheat, total.....	1,704	1,409	17.7	15.3		11,802	5,867	102.2	Bu.	377,785	189,312	99.6	434,456	130,384	233.2
Winter.....	1,272	1,220	12.8	13.2		37,131	20,028	85.4	Bu.	835,574	382,875	130.2	1,921,358	410,214	368.4
Spring.....	501	189	5.0	2.0		31,076	18,099	71.7	Bu.	722,046	324,074	122.3	1,600,704	366,851	352.7
Emmer and spelt.....	4	1	(8)	(3)		6,055	1,929	213.0	Bu.	113,328	38,801	192.1	260,654	43,363	501.1
Barley.....	934	983	9.4	10.7		21,748	32,807	-33.9	Bu.	533	67	1,068	80	.....	.....
Rye.....	31	6	0.3	0.1		177	21	.....	Bu.	656,835	1,008,442	-34.9	952,415	714,834	33.2
Brickwheat.....	5	1	0.1	(8)		123	40	.....	Bu.	3,471	261	6,770	239	.....	.....
Kafir and millo.....	1,545	109	15.5	1.2		33,608	801	.....	Bu.	485	600	970	900	7.8	.....
Mixed crops ⁴	8	.....	0.1	.....		73	.....	.....	Bu.	849,994	18,739	.....	1,274,994	2,795	.....
Other grains and seeds with acreage reports, total.....									Bu.	1,863	.....	.....	.....	.....	.....
Dry edible beans.....	976	776	9.8	8.4		10,512	2,391	339.6	Bu.	98,415	19,750	398.3	426,896	47,206	804.3
Soy beans.....	34	.....	0.3	.....		9,438	2,301	310.2	Bu.	82,090	18,457	344.8	385,825	44,997	757.4
Dry peas.....	33	15	0.3	0.2		272	13	.....	Bu.	1,109	.....	4,093	5,720	293	.....
Peanuts.....	52	20	0.5	0.2		82	9	.....	Bu.	1,430	93	608	10,053	1,308	.....
Sorghum seed.....	42	11	0.4	0.1		606	68	.....	Bu.	4,103	345	21,133	2,813	1,308	.....
Seeds with no acreage reports, total ⁵									Bu.	9,066	855	.....	.....	.....	.....
Alfalfa seed and cloverseed (other than red clover).....	164	126	1.6	1.4		.....	.....	.....	Bu.	33,679	22,598	49.0	674,093	156,840	329.8
Grass seed (other than timothy).....	23	.....	0.2	.....		.....	.....	.....	Bu.	31,322	22,492	39.3	657,762	156,628	320.0
Bu.	2,157	.....	.....	.....		.....	.....	.....	Bu.	15,551	.....	.....	.....	.....	.....
Hay and forage, total ⁷	6,530	3,738	65.5	40.5		187,498	102,988	74.8	Tons.	494,686	260,878	78.8	10,658,211	2,564,156	341.3
All tame or cultivated grasses.....						120,007	68,672	74.8	Tons.	354,257	195,111	78.8	8,503,955	1,947,458	341.3
Timothy alone.....	30	14	0.4	0.2		300	120	157.5	Tons.	411	182	126.8	10,275	1,948	427.5
Timothy and clover mixed.....	25	10	0.3	0.1		368	143	157.3	Tons.	530	289	83.4	13,250	4,084	185.9
Clover alone.....	39	4	0.4	(8)		193	119	62.2	Tons.	272	119	128.6	5,712	1,255	355.1
Alfalfa.....	3,810	2,170	38.2	23.6		109,633	66,102	65.9	Tons.	337,622	194,534	73.6	8,271,700	1,896,459	336.2
Other tame grasses ⁸	696	.....	6.9	.....		9,504	2,188	334.4	Tons.	15,422	2,987	416.3	293,018	42,812	584.4
Wild, salt, or prairie grasses.....	339	327	3.4	3.5		8,364	9,514	-12.1	Tons.	7,802	8,108	-4.5	109,228	81,937	33.2
Small grains cut for hay.....	1,070	990	{ 10.7	{ 10.8		23,093	19,058	27.1	Tons.	29,609	29,712	4.7	695,814	368,316	97.0
Annual legumes cut for hay.....	60	.....	0.6	.....		1,136	5,254	.....	Bu.	1,488	.....	29,760	408,151	.....	.....
Silage crops.....	308	.....	3.1	.....		8,677	4,478	.....	Tons.	42,963	14,344	157,784	94,821	.....	.....
Corn cut for forage ⁷	818	.....	8.2	.....		28,946	44,108	.....	Tons.	8,884	601,620	.....	.....	.....	.....
Corn cut for forage, etc., for forage.....	1,990	.....	20.0	.....		21	1,260	-98.3	Tons.	115	16,003	-99.3	1,899	71,574	-97.3
Root crops for forage.....	23	.....	0.2	.....		.....	.....	.....	Bu.	.....	.....	.....	1,784,699	505,988	254.7
Vegetables, total.....	791	634	7.9	6.9		2,505	1,151	117.6	Bu.	174,301	97,141	79.4	435,755	98,597	342.0
Potatoes (Irish or white).....	290	139	2.9	1.5		317	200	58.5	Bu.	34,474	21,206	62.6	91,356	28,098	225.1
Sweet potatoes and yams.....	1,049	2,404	10.5	26.1		6,062	4,302	.....	Bu.	.....	.....	956,168	379,293	.....
Other vegetables ⁹	8,145	.....	31.5	.....		.....	.....	.....	Bu.	311,420	.....	.....	.....	.....	.....
Farm garden ¹⁰.....						.....	.....	.....	Bales.	59,351	11	.....	22,071,270	242,036	.....
Miscellaneous crops, total.....	2,632	2	26.4	(8)		106,541	4,581	19	Tons.	27,420	6	1,933,112	137	.....	.....
Cotton.....	99	49	1.0	0.5		198	88	.....	Tons.	813	329	147.1	15,694	3,068	411.5
Cottonseed (estimated).....	65	.....	0.7	.....		4,443	.....	.....	Tons.	49,024	.....	.....	236,887	719	58.3
Sorghum grown for syrup.....	11	8	0.1	0.1		10	16	.....	Tons.	60	55	1,337	495	170.1	.....
Sugar beets grown for sugar.....	.....	.....	.....	.....		50	15	.....	.....	.....	.....	.....	.....	.....
Sugar cane.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....
Sundry minor crops ¹¹.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....
Fruits and nuts, total.....	317	.....	3.2	.....		58	76	.....	Qts.	62,407	112,190	-44.3	1,391,130	347,585	300.2
Small fruits.....	.....	.....	.....	.....		.....	.....	.....	Qts.	14,048	1,377,082	12,987	334,598	311.6	8.2
Other fruits and nuts.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ A minus sign (−) denotes decrease. Per cent not shown when base is less than 100 or when per cent is more than 1,000.² Excluding 8,677 acres reported for corn cut for forage, which is practically all duplicated in the acreage shown for corn harvested as grain.³ Less than one-tenth of 1 per cent.⁴ Principally oats and barley grown and harvested together.⁵ The 1919 figures include a small quantity of flaxseed.⁶ Includes small quantities of millet seed (1919 and 1909) and of timothy seed (1909).⁷ The entire acreage from which the grass and clover seeds were secured is believed to be included in the acreage given elsewhere for hay and forage.⁸ Corn cut for forage was not reported to any extent in 1909; hence no fair comparison between 1919 and 1909 can be made, either for the hay and forage totals or for the bracketed group in which corn cut for forage appears.⁹ Includes millet and Hungarian grass.¹⁰ The 1919 figures represent vegetables raised for sale only.¹¹ In 1909 the value of the farm garden was largely included in the value of "other vegetables."¹² These crops comprise broom corn and tobacco.

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The combined acreage of crops harvested in Arizona in 1919 for which the acreage was reported was 441,712, which represents 62 per cent of the total improved land in farms (712,803 acres). The total crop acreage reported for 1909 was 190,958, or 54.5 per cent of the improved land in farms (350,173 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage of which was not reported.

In addition to the crops regularly harvested in 1919, as shown in the tables, there were reported 10,434 acres of mature crops grazed or "hogged off."

Farm value of crops.—At the census of 1920 the farm schedule called for the value of all farm property, including live stock, and the value of live-stock products sold.

In the case of farm crops, however, wherever a unit value could be used, such as the value per bushel or per ton, the farmer was asked to report the acreage and production of each crop but not the value. To supplement the information obtained from the farmers, the Bureau of Crop Estimates of the United States Department of Agriculture secured by special schedule from its crop reporters average values for such crops. These special schedules were tabulated by the Bureau of the Census, and the resulting averages, approved by the Bureau of Crop Estimates as representing a fair average of the farm value per unit, were used in computing most of the crop values presented in the accompanying tables.

For some products it was not possible to find any satisfactory unit on which to base a computation of the total value. Values were therefore obtained on the 1920 census schedule for vegetables, other than potatoes and sweet potatoes, and for the farm garden.

TABLE 33.—ACREAGE OF IMPORTANT CROPS: 1879 TO 1919.

CROP.	1919	1909	1899	1889	1879
Corn.....	22,150	15,605	11,654	4,331	1,818
Oats.....	11,862	5,867	1,641	1,472	29
Wheat.....	37,131	20,028	24,377	6,225	9,026
Barley.....	23,748	32,807	16,270	10,644	12,404
Kafir and milo.....	33,608	801	1	.....	.....
Dry edible beans.....	9,438	2,301	805	.....	.....
Hay and forage.....	1 197,498	102,938	92,674	27,908	5,569
Potatoes.....	2,505	1,151	626	407	.....
Cotton.....	106,283	19	20	.....	.....

¹ Includes 8,677 acres in corn out for forage. This crop was not included to any extent in the hay and forage totals prior to 1919.

TABLE 34.—PERCENTAGES AND AVERAGES FOR IMPORTANT CROPS: 1919 AND 1909.

CROP.	PER CENT OF IMPROVED LAND OCCUPIED.		AVERAGE YIELD PER ACRE.			AVERAGE VALUE PER ACRE.	
	1919	1909	Unit.	1919	1909	1919	1909
Corn.....	3.1	4.5	Bu....	20.1	19.1	\$39.28	\$18.83
Oats.....	1.7	1.7	Bu....	31.8	32.3	36.63	22.22
Wheat.....	5.2	5.7	Bu....	22.5	18.1	51.75	20.48
Barley.....	3.1	9.4	Bu....	30.2	30.7	43.79	21.73
Kafir and milo.....	4.7	0.2	Bu....	25.3	23.4	37.94	25.41
Dry edible beans.....	1.3	0.7	Bu....	8.7	8.0	40.88	19.56
Hay and forage.....	27.7	29.4	Tons...	2.50	2.53	53.97	24.90
Potatoes.....	0.4	0.3	Bu....	69.6	84.4	173.05	85.66
Cotton.....	14.9	(¹)	Bales...	0.56	0.58	189.31	38.42

¹ Less than one-tenth of 1 per cent.

TABLE 35.—VEGETABLES RAISED FOR SALE: 1919.

[Vegetables other than potatoes and sweet potatoes.]

CROP.	F FARMS REPORTING.		Acres harvested.	Value of product.
	Number.	Per cent of all farms.		
Total.....	1,049	10.5	6,062	\$956,168
Asparagus.....	14	0.1	22	5,630
Beans (green).....	97	1.0	72	12,340
Cabbages.....	190	1.9	163	31,128
Cantaloupes and muskmelons.....	328	3.3	3,300	465,739
Corn (sweet).....	131	1.3	191	15,569
Cucumbers.....	77	0.8	60	83,775
Lettuce.....	69	0.7	284	72,405
Onions.....	117	1.2	71	10,130
Peppers (green).....	55	0.6	66	14,291
Pumpkins.....	32	0.3	45	3,856
Spinach.....	9	0.1	28	2,860
Squashes.....	50	0.5	29	8,228
Tomatoes.....	227	2.3	113	27,483
Watermelons.....	486	4.9	1,078	109,745
All other vegetables.....	101	1.0	70	12,311
Mixed vegetables.....	.....	.....	470	71,678

TABLE 36.—SUGAR CROPS: 1919 AND 1909.

CROP.	F FARMS REPORTING.		Acres harvested.	PRODUCTION.		
	Num-ber.	Per cent of all farms.		Quantity.	Unit.	Value.
Sugar beets grown for sugar.....	1919.....	65	0.7	4,443	Tons...	\$236,887
Sorghum grown for syrup.....	1919.....	99	1.0	1 198	Tons...	.....
	1909.....	49	0.5	88	Tons...	.....
Syrup made.....	1919.....	.....	.....	1 10,461	Gals...	15,694
	1909.....	.....	.....	3,967	Gals...	3,068
Sugar cane, total.....	1919.....	.....	.....	.....	.....	1,138
	1909.....	.....	.....	.....	.....	719
Cane grown.....	1919.....	11	0.1	10	Tons...	.....
	1909.....	8	0.1	16	Tons...	.....
Syrup made.....	1919.....	11	0.1	758	Gals...	1,138
	1909.....	8	0.1	1,040	Gals...	719

¹ Figures include estimates for incomplete reports.

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TABLE 37.—SMALL FRUITS: 1919 AND 1909.

CROP.	F FARMS REPORTING.		PRODUCTION.			
	Number.	Per cent of all farms.	Acres harvested.	Quantity (quarts).	Value.	
Total.....	1919.....	317	3.2	68	62,467	\$14,048
	1909.....			76	112,190	12,987
Strawberries.....	1919.....	56	0.6	20	17,058	4,267
	1909.....	68	0.7	58	95,247	10,775
Raspberries.....	1919.....	23	0.2	(1)	572	144
Loganberries.....	1919.....	3	(2)	(1)	105	21
Raspberries and loganberries.....	1909.....	17	0.2	1	1,550	250
Blackberries and dewberries.....	1919.....	176	1.8	33	37,040	7,408
	1909.....	40	0.4	10	18,308	1,761
Currants.....	1919.....	59	0.6	5	6,856	2,058
	1909.....	10	0.1	1	1,010	111
Other berries.....	1919.....	24	0.2	(1)	836	150
	1909.....			(1)	575	90

¹ Less than 1 acre.

² Less than one-tenth of 1 per cent.

TABLE 38.—FRUIT AND NUT TREES AND GRAPEVINES NOT OF BEARING AGE: 1920 AND 1910.

CROP.	F FARMS REPORTING.		TREES OR VINES NOT OF BEARING AGE.	
	Number.		Per cent of all farms.	
	1920	1910	1920	1910
Orchard fruits, total ¹	1,985		10.9	
Apples.....	1,222	985	12.3	10.5
Peaches.....	1,304	1,030	13.1	11.2
Pears.....	821	824	8.2	8.9
Plums and prunes.....	843	624	8.5	6.8
Cherries.....	286	252	2.9	2.7
Apricots.....	330	529	3.4	5.7
Subtropical fruits, total.....				
Figs.....	235	280	2.4	3.0
Oranges.....	249	240	2.5	2.6
Lemons.....	56	73	0.6	0.8
Grapefruit (pome洛es).....	120	52	1.2	0.6
Olives.....	35	73	0.4	0.8
Dates.....	18	21	0.2	0.2
Pomegranates.....	4	27	(2)	0.3
Grapes.....	528	592	5.3	6.4
Nuts, total ²				
Almonds.....	121	90	1.2	1.0
Pecans.....	82	39	0.8	0.4
Walnuts (Persian or English).....	67	62	0.7	0.7

¹ Includes quinces and (for 1910) mulberries.

² Less than one-tenth of 1 per cent.

³ The 1910 figures include black walnuts and several minor varieties of nuts.

TABLE 39.—ORCHARD AND SUBTROPICAL FRUITS, GRAPES, AND NUTS: 1919 AND 1909.

CROP.	F FARMS REPORTING TREES OR VINES OF BEARING AGE.				NUMBER OF TREES OR VINES OF BEARING AGE.				PRODUCTION.			
	Number.		Per cent of all farms.		1920		1910		Quantity.		Value.	
	1920	1910	1920	1910	1920	1910	1920	1910	Unit.	1919	1909	1919	1909
Orchard fruits, total ¹	2,990		30.0		241,433	152,340	Bu....	362,880	153,885	\$886,839		\$241,110
Apples.....	1,672	822	16.8	8.9	70,273	62,027	Bu....	120,765	72,814	289,836		109,395
Peaches.....	2,441	1,286	24.5	13.7	101,855	51,415	Bu....	138,361	50,102	352,821		80,325
Pears.....	1,139	745	11.4	8.1	12,359	16,351	Bu....	18,201	13,289	49,144		21,331
Plums and prunes.....	1,457	717	14.6	7.8	15,713	12,196	Bu....	23,786	8,420	63,033		16,261
Cherries.....	290	143	2.9	1.5	1,500	812	Bu....	999	470	4,304		840
Apricots.....	823	505	8.3	6.1	39,404	6,665	Bu....	60,463	6,849	120,971		10,053
Subtropical fruits, total.....					79,782	51,036				446,830		63,632
Figs.....	432	361	4.3	3.9	3,719	3,848	Lbs...	129,849	127,081	15,583		4,103
Oranges.....	237	96	2.4	1.0	46,652	33,373	Boxes...	79,637	32,247	318,548		52,341
Lemons.....	57	26	0.6	0.3	1,283	1,052	Boxes...	1,621	1,010	6,484		2,034
Grapefruit (pome洛es).....	121	12	1.2	0.1	18,819	818	Boxes...	28,099	820	70,748		1,508
Tangerines.....	1		(2)		300		Boxes...	1,000		4,000		
Olives.....	22	57	0.2	0.6	7,368	9,353	Lbs...	112,561	264,895	11,256		3,073
Dates.....	17	14	0.2	0.2	740	1,216	Lbs...	42,812	6,600	10,703		96
Pomegranates.....	17	29	0.2	0.3	906	776	Lbs...	10,140	23,360	608		477
Grapes.....		981	508	9.6	83,018	131,570	Lbs...	669,873	837,842	40,181		25,371
Nuts, total ²					5,133	6,812	Lbs...	12,309	35,834	3,132		4,485
Almonds.....	180	165	1.8	1.7	4,699	6,639	Lbs...	10,335	33,759	2,583		4,193
Pecans.....	29	14	0.3	0.2	196	64	Lbs...	1,103	1,075	330		131
Walnuts (Persian or English).....	25	23	0.3	0.2	238	103	Lbs...	871	1,000	219		161

¹ Includes quinces and (for 1910) mulberries. Since these fruits were not specifically called for by the 1920 schedule, the returns for that year are somewhat incomplete.

² Less than one-tenth of 1 per cent.

³ The figures for 1910 include black walnut trees.

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Age of farmers.—A farmer or farm operator, as defined for census purposes, is a person who operates a farm. The number of farm operators, for which the age distribution is shown in the following table, is therefore the same as the number of farms.

TABLE 40.—FARM OPERATORS CLASSIFIED ACCORDING TO AGE AND TENURE: 1920 AND 1910.

AGE.	TOTAL.		OWNERS.		MAN-		TENANTS.		ITEM.	F FARMS REPORTING.		AMOUNT.	
			AGERS.		Total.	Average per farm.							
	1920	1910	1920	1910	1920	1910	1920	1910		Total.	Average per farm.	Total.	Average per farm.
All farmers, total...	9,975	9,227	7,869	8,203	305	163	1,801	861					
Reporting age...	9,700	8,077	7,671	7,068	275	157	1,754	860	Marketing or purchasing...	224	2.2		
Under 25 years...	373	380	229	285	20	11	124	84	Marketing...	180	1.8	\$394,508	\$2,192
25 to 34 years...	2,013	1,730	1,439	1,467	82	48	492	215	Purchasing...	121	1.2	41,170	340
35 to 44 years...	2,815	2,175	2,181	1,903	88	39	546	233					
45 to 54 years...	2,350	1,937	1,910	1,713	53	36	306	188					
55 to 64 years...	1,458	1,148	1,288	1,032	23	17	147	99					
65 years and over...	682	707	624	660	9	6	49	41					
Not reporting age...	273	1,150	198	1,143	30	6	47	—					

Farmers classified by number of years on farm.—In the following table the farmers of the state are classified according to the number of years they had been on the farms which they were operating when the census was taken. The purpose of this classification is to show the relative stability of the different classes.

In 1920 the date of enumeration (January 1) came just before the period during which changes from one farm to another are commonly made in most localities, and hence at a time when many farmers had almost, but not quite, completed one, two, or more years on their farms. Considerable numbers of these farmers reported one, two, or more full years, in place of reporting the correct number of months (or years and months).⁹ In 1910, however, the enumeration date (April 15) was late enough so that, in localities where the common moving time was in the early part of the year, the number of years of occupancy was accurately reported. These differences seriously affect the comparability of the returns, especially for the first two years of occupancy. Hence these two years, which were tabulated separately and are so published in Volume V of the Fourteenth Census Reports, have been combined in the following table:

TABLE 41.—FARM OPERATORS CLASSIFIED ACCORDING TO NUMBER OF YEARS ON FARM, BY TENURE: 1920 AND 1910.

NUMBER OF YEARS ON FARM.	TOTAL.		OWNERS.		MAN-		TENANTS.		ITEM.	F FARMS REPORTING.		AMOUNT.	
			AGERS.		Total.	Average per farm.							
	1920	1910	1920	1910	1920	1910	1920	1910		Total.	Average per farm.	Total.	Average per farm.
All farmers, total...	9,975	9,227	7,869	8,203	305	163	1,801	861					
Rptg. years on farm...	9,497	6,645	7,561	5,095	268	147	1,668	803					
Less than 2 years...	2,914	2,017	1,701	1,467	148	72	1,065	478					
2 to 4 years...	2,717	1,656	2,202	1,396	73	37	442	223					
5 to 9 years...	1,966	1,050	1,816	969	32	16	118	65					
10 years and over...	1,900	1,922	1,842	1,803	15	22	43	37					
Not reporting...	478	2,532	308	2,508	37	16	133	58					

Cooperative marketing and purchasing.—Cooperative marketing of farm products or cooperative purchasing of supplies through farmers' organizations in 1919 was reported by 224 farms in Arizona, including 77

farms which reported both sales and purchases, 103 farms which reported sales only, and 44 farms which reported purchases only.

TABLE 42.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: 1919.

ITEM.	F FARMS REPORTING.		AMOUNT.	
	Number.	Per cent of all farms.	Total.	Average per farm.
Marketing or purchasing...	224	2.2		
Marketing...	180	1.8	\$394,508	\$2,192
Purchasing...	121	1.2	41,170	340

Farm facilities—Motor vehicles, telephones, water, and light on farms.—The following table indicates the extent to which the farmers of Arizona used motor vehicles and telephones, and the extent to which the farm homes were supplied with water and modern lighting facilities.

TABLE 43.—MOTOR VEHICLES, TELEPHONES, WATER, AND LIGHT ON FARMS: 1920.

ITEM.	F FARMS REPORTING.		Number per 1,000 of all farms.
	Number.	Per cent of all farms.	
Automobiles...	4,534	45.5	5,082
Motor trucks...	527	5.3	581
Tractors...	820	8.2	930
Telephones...	1,638	16.4	—
Water piped into house...	1,988	19.0	—
Gas or electric light...	592	5.9	—

Pure-bred live stock on farms.—The inquiry relating to pure-bred live stock called for registered animals only, but it seems evident, from a study of the returns, that some animals merely eligible for registry (but not actually registered) were included in the reports.

The number of farms in Arizona in 1920 was 9,975, of which number 9,355 reported domestic animals of some kind, and 1,059 reported pure-bred live stock.

TABLE 44.—PURE-BRED LIVE STOCK CLASSIFIED ACCORDING TO BREED: 1920.

NOTE.—Pure-bred horses reported in Arizona represented 0.1 per cent of all horses on farms (see Table 23); pure-bred cattle, 1 per cent of the total; pure-bred sheep, 0.3 per cent; and pure-bred swine, 3.9 per cent.

BREED.	Number.	BREED.	Number.
Horses, total...	178	Sheep, total...	2,205
Clydesdale...	3	Hampshire Down...	10
Percheron...	59	Merino...	753
Standard Bred...	6	Rambouillet...	284
Thoroughbred...	27	Shropshire...	224
All other breeds ¹ ...	83	Suffolk...	33
Cattle, total...	8,455	All other breeds ¹ ...	901
Beef breeds, total...	5,683	Swine, total...	1,914
Hereford...	5,023	Berkshire...	47
Polled Durham...	117	Chester White...	24
Shorthorn...	224	Duroc-Jersey...	1,107
All other beef breeds ¹ ...	319	Hampshire...	10
Dairy breeds, total...	2,772	Poland China...	688
Ayrshire...	109	All other breeds ¹ ...	38
Guernsey...	48		
Holstein-Friesian...	1,778		
Jersey...	669		
All other dairy breeds ¹ ...	168		

¹ Includes animals reported as pure bred, with breed not specified.

Calves, pigs, and lambs raised on farms.—The figures presented include young animals born in 1919, which were retained on the farm, sold to others, or slaughtered for food, but do not include young animals purchased or those that died.

TABLE 45.—CALVES, PIGS, AND LAMBS RAISED ON FARMS: 1919.

ITEM.	FARMS REPORTING.		ANIMALS RAISED.	
	Number.	Per cent of all farms.	Number.	Average per farm.
Calves.....	4,679	46.9	136,981	29.3
Pigs.....	1,797	18.0	31,432	17.5
Lambs.....	304	3.0	124,494	409.5

Domestic animals sold or slaughtered on farms.—The number of cattle, swine, and sheep slaughtered on farms was reported for both 1919 and 1909, but the farm schedule for 1919 carried no inquiry with regard to the value of the animals slaughtered, or with regard to the number or value of the animals sold by farmers. The total value of domestic animals sold or slaughtered on farms in Arizona in 1919 has been estimated, however, at \$10,900,000, as compared with \$4,847,097, the value reported for 1909.

TABLE 46.—DOMESTIC ANIMALS SLAUGHTERED ON FARMS: 1919 AND 1909.

ITEM AND CENSUS YEAR.	FARMS REPORTING.		ANIMALS SLAUGHTERED.		Meat and meat products sold (pounds).
	Number.	Per cent of all farms.	Number.	Average per farm.	
Cattle and calves.....	1,859	18.6	9,628	5.2	796,546
	1909.....	11,917	.....	.....	.....
Cattle.....	942	10.2	10,773	11.4	.....
Calves.....	171	1.9	1,144	6.7	.....
Swine.....	2,388	23.9	9,468	4.0	509,051
	1909.....	816	8.8	3,290	4.0
Sheep and lambs.....	202	2.0	7,648	37.9	18,814
	1909.....	194	2.1	8,125	41.0

Sales of selected crops.—The sales of the crops listed represent that part of the year's production which was sold, or to be sold, by those farmers who produced the crops.

TABLE 47.—PRODUCTION AND SALES OF SELECTED CROPS: 1919 AND 1909.

CROP AND CENSUS YEAR.	Farms reporting production.	FARMS REPORTING SALES.		Production.	QUANTITY SOLD (OR TO BE SOLD).	
		Number.	Per cent of farms reporting production.		Amount.	Per cent of production.
Corn.....	1919.....	2,074	598	28.8	Bushels. 446,208	Bushels. 141,307 31.7
	1909.....	2,286	503	22.2	298,604	77,089 25.8
Oats.....	1919.....	573	331	57.8	377,785	211,197 55.9
	1909.....	315	177	56.2	189,312	91,310 51.4
Barley.....	1919.....	934	628	67.2	656,835	460,021 70.0
	1909.....	988	642	65.3	1,008,442	586,863 58.2
Hay.....	1919.....	.....	.....	.....	Tons. 393,156	Tons. 159,517 40.6
	1909.....	.....	.....	.....	235,991	84,728 35.9
Potatoes.....	1919.....	791	390	49.3	Bushels. 174,301	Bushels. 110,465 63.4
Apples.....	1919.....	.....	427	.....	120,765	71,911 59.5

Fruit products of farms.—The figures relate only to fruit products obtained from fruit grown on those farms reporting the products.

TABLE 48.—FRUIT PRODUCTS (FARM PRODUCTION): 1919 AND 1909.

ITEM.	Farms reporting.	Production.
Cider.....	1919.....	39 Gallons. 2,437
	1909.....	15 2,771
Cider made (or to be made) into vinegar.....	1919.....	29 1,085
Vinegar made on farms ¹	1909.....	36 3,504
Grape juice.....	1919.....	7 32
Wine and grape juice.....	1909.....	5 5,100
Dried fruits.....	1919.....	176 Pounds. 23,422
	1909.....	31 7,932

¹ Includes vinegar other than that made from cider.

Forest products of farms.—Forest products, as defined on the farm schedule, include firewood, fence posts, crossties, pulp wood, saw logs, poles, etc., and standing timber sold and cut during the years indicated. The figures cover only forest products of farms and do not represent by any means the total value of all forest products cut in the state during the census years.

TABLE 49.—FOREST PRODUCTS OF FARMS: 1919 AND 1909.

ITEM.	1919	1909
Forest products of farms:		
Farms reporting.....	198	402
Per cent of all farms.....	2.0	4.4
Value.....	\$67,754	\$45,312
Average per farm reporting.....	\$342	\$113
Forest products sold from farms (or cut and held for sale):		
Farms reporting.....	53	
Value.....	\$33,028	\$14,011
Average per farm reporting.....	\$623	
Forest products used on farms (or cut and held for use):		
Farms reporting.....	172	
Value.....	\$34,726	\$31,301
Average per farm reporting.....	\$202	

Nurseries and greenhouses.—The data presented for nurseries include the returns from all farms and establishments reporting receipts from the sale of nursery stock, and those for greenhouses include the returns from all farms and establishments reporting receipts from the sale of greenhouse products (whether grown in hothouses or in cold frames).

TABLE 50.—NURSERIES AND GREENHOUSES: 1919 AND 1909.

ITEM.	1919	1909
Nurseries:		
Number of nurseries (farms and establishments) reporting.....	14	11
Acreage used for growing nursery stock.....	60	18
Receipts from sale of products.....	\$23,481	\$4,535
Average receipts per nursery.....	\$1,677	\$412
Average receipts per acre.....	\$391.35	\$251.94
Greenhouses:		
Number of farms and establishments reporting.....	10	7
Square feet under glass.....	6,516	29,810
Receipts from sale of products.....	\$4,343	\$11,177
Flowers and flowering plants.....	\$3,710	
Vegetables and vegetable plants.....	\$633	
Average receipts per farm or establishment.....	\$434	\$1,597

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COUNTY TABLE I.—FARMS AND FARM PROPERTY, 1920,

		THE STATE	Apache.	Cochise.	Coconino.	Gila.	Graham. ¹	Greenlee. ¹	Maricopa.
ALL FARMS.									
1	Number of farms..1920.....	9,975	337	1,251	362	289	870	262	3,930
2	1910.....	9,227	803	1,042	656	515	889	.....	2,229
3	1900.....	5,809	280	252	280	237	509	.....	1,089
4	All farmers classified by sex, 1920:								
5	Male.....number..	9,608	322	1,155	350	274	848	253	3,820
5	Female.....number..	367	15	98	12	15	22	9	110
6	Color and nativity of all farmers, 1920:								
6	Native white.....number..	8,262	302	1,070	330	237	810	241	3,114
7	Foreign-born white.....number..	1,067	8	178	31	12	56	21	402
8	Negro and other nonwhite.....number..	616	27	3	1	40	4	.....	414
9	All farms classified by size, 1920:								
9	Under 3 acres.....number..	136	.....	6	8	2	8	3	20
10	3 to 9 acres.....number..	564	15	23	7	15	60	19	296
11	10 to 19 acres.....number..	738	9	22	8	29	62	11	456
12	20 to 49 acres.....number..	2,367	31	72	25	30	243	76	1,436
13	50 to 99 acres.....number..	1,703	28	69	43	56	203	62	840
14	100 to 174 acres.....number..	2,239	130	348	187	118	152	67	566
15	175 to 250 acres.....number..	372	22	47	24	15	38	12	102
16	260 to 499 acres.....number..	970	46	358	30	19	71	9	148
17	500 to 999 acres.....number..	478	29	161	17	5	14	3	41
18	1,000 acres and over.....number..	401	27	145	13	.....	19	.....	25
LAND AND FARM AREA.									
19	Approximate land area, 1920.....acres..	72,838,400	7,282,600	3,948,800	11,918,720	3,007,360	2,963,200	1,201,920	5,890,240
20	Land in farms, 1920.....acres..	5,802,126	717,598	998,242	164,669	35,752	105,691	24,383	802,396
21	1910.....acres..	1,246,613	104,859	309,985	29,054	22,008	72,760	.....	248,271
22	1900.....acres..	1,936,327	30,332	62,992	143,937	30,015	172,570	.....	170,716
23	Improved land in farms, 1920.....acres..	712,803	27,452	120,229	19,827	8,909	38,632	7,990	279,334
24	1910.....acres..	350,173	17,054	34,787	5,671	6,660	33,715	.....	172,592
25	1900.....acres..	254,521	9,275	10,576	6,275	5,731	20,761	.....	118,230
26	Woodland in farms, 1920.....acres..	523,648	175,798	51,700	8,885	8,277	1,324	1,090	5,639
27	Other unimproved land in farms, 1920.....acres..	4,565,675	514,648	826,313	135,987	18,566	125,735	15,303	517,423
28	Per cent of land area in farms, 1920.....	8.0	9.9	25.3	1.4	1.2	5.6	2.0	14.1
29	Per cent of farm land improved, 1920.....	12.3	8.8	12.0	12.0	24.9	23.3	32.8	34.8
30	Average acreage per farm, 1920.....	581.7	2,130.3	798.0	454.0	123.7	190.4	93.1	204.2
31	Average improved acreage per farm, 1920.....	71.5	81.5	96.1	54.8	30.8	44.4	30.5	71.1
VALUE OF FARM PROPERTY.									
32	All farm property, 1920.....dollars..	233,592,989	7,730,945	14,104,945	6,928,887	4,483,502	11,824,732	5,744,815	105,375,013
33	1910.....dollars..	75,123,970	4,159,329	6,407,825	3,151,540	2,234,279	7,669,553	.....	33,879,281
34	1900.....dollars..	29,993,847	1,317,924	3,505,009	1,300,506	1,304,534	3,311,363	.....	8,214,002
35	Land in farms, 1920.....dollars..	156,562,606	2,967,485	7,711,884	2,031,285	1,083,322	7,371,442	2,659,670	84,517,373
36	1910.....dollars..	42,349,737	1,115,242	2,645,181	501,085	421,288	4,200,257	.....	25,945,339
37	1900.....dollars..	11,410,460	169,760	496,510	444,840	151,190	1,371,339	.....	5,216,666
38	Farm buildings, 1920.....dollars..	15,762,715	654,580	1,192,450	425,227	299,790	1,048,939	236,550	7,232,525
39	1910.....dollars..	4,935,573	171,835	558,185	186,343	101,942	552,873	.....	2,119,308
40	1900.....dollars..	2,266,600	91,600	134,850	83,680	84,890	261,170	.....	808,110
41	Implements and machinery, 1920.....dollars..	8,820,667	196,802	717,062	203,372	97,658	496,181	108,907	4,253,930
42	1910.....dollars..	1,787,790	50,407	207,345	30,870	36,885	210,804	.....	768,820
43	1900.....dollars..	765,200	30,990	46,140	30,900	27,650	80,070	.....	236,270
44	Live stock on farms, 1920.....dollars..	52,447,001	3,912,038	4,483,549	4,269,003	2,952,732	2,908,170	2,739,598	9,371,185
45	1910.....dollars..	24,050,870	2,822,045	3,037,134	2,433,242	1,674,164	2,615,619	.....	5,045,814
46	1900.....dollars..	15,545,687	1,025,574	2,827,569	800,986	1,040,804	1,589,784	.....	1,957,926
47	Average values, 1920:								
47	All property per farm.....dollars..	23,418	22,940	11,275	19,141	15,445	13,592	21,927	26,813
48	Land and buildings per farm.....dollars..	17,276	10,748	7,118	6,786	4,786	9,679	11,054	23,346
49	Land alone per acre.....dollars..	26.98	4.13	7.73	12.34	30.30	44.49	109.08	105.33
FARMS OPERATED BY OWNERS.									
50	Number of farms, 1920.....	7,860	310	1,136	313	248	734	197	2,800
51	1910.....	8,203	772	960	636	484	744	.....	1,772
52	1900.....	4,985	236	186	255	206	412	.....	878
53	Per cent of all farms, 1920.....	78.9	92.0	90.8	86.5	85.8	84.4	78.2	71.2
54	Land in farms, 1920.....acres..	3,819,651	669,815	817,289	141,140	28,609	144,428	18,300	647,430
55	Improved land in farms, 1920.....acres..	442,010	19,316	83,577	15,968	6,746	30,254	5,460	160,201
56	Value of land and buildings, 1920.....dollars..	105,646,848	2,613,623	7,227,654	1,863,005	1,106,925	6,909,271	2,129,985	56,418,721
57	Degree of ownership, 1920:								
57	Farmers owning entire farm.....number..	6,970	253	932	271	244	635	186	2,553
58	Farmers hiring additional land.....number..	890	57	204	42	4	99	11	247
59	Color and nativity of owners, 1920:								
59	Native white owners.....number..	6,482	275	973	283	201	687	185	2,157
60	Foreign-born white owners.....number..	834	8	161	30	10	45	12	300
61	Negro and other nonwhite owners.....number..	553	27	2	.....	37	2	.....	343
FARMS OPERATED BY MANAGERS.									
62	Number of farms, 1920.....	305	4	19	14	20	8	14	120
63	1910.....	163	6	20	1	8	6	.....	48
64	1900.....	335	16	43	18	25	27	.....	58
65	Land in farms, 1920.....acres..	1,390,949	10,581	126,637	17,826	4,452	1,596	1,684	62,172
66	Improved land in farms, 1920.....acres..	119,215	6,910	5,640	2,106	1,363	718	495	43,116
67	Value of land and buildings, 1920.....dollars..	30,826,729	844,722	1,123,200	284,495	172,980	157,300	360,455	11,543,942
FARMS OPERATED BY TENANTS.									
68	Number of farms, 1920.....	1,801	23	98	35	21	128	51	1,010
69	1910.....	861	25	42	19	23	139	.....	409
70	1900.....	489	23	23	7	6	70	.....	153
71	Per cent of all farms, 1920.....	18.1	6.8	7.7	9.7	7.3	14.7	19.5	25.7
72	Land in farms, 1920.....acres..	591,526	37,502	54,316	5,703	2,681	19,667	4,390	92,794
73	Improved land in farms, 1920.....acres..	151,578	1,226	31,012	1,753	800	7,680	2,035	75,927
74	Value of land and buildings, 1920.....dollars..	35,851,744	163,700	553,480	309,012	103,207	1,353,810	405,780	23,787,235
75	Form of tenancy, 1920:								
76	Share tenants.....number..	887	15	35	14	10	94	31	477
76	Share-cash tenants.....number..	27	.....	.....	.....	2	1	15	.....
77	Cash tenants.....number..	853	8	59	20	11	27	15	517
78	Unspecified.....number..	34	.....	2	1	.....	5	4	1
79	Color and nativity of tenants, 1920:								
79	Native white tenants.....number..	1,510	23	81	33	16	115	43	848
80	Foreign-born white tenants.....number..	203	14	1	1	2	11	8	93
81	Negro and other nonwhite tenants.....number..	88	1	1	1	3	2	69

¹ Greenlee County organized from part of Graham County in 1911.

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WITH SELECTED ITEMS FOR 1910 AND 1900.

		Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.	Indian reservations.
ALL FARMS.									
1	Number of farms. 1920.....	130	341	434	293	248	508	630	.....
2	1910.....	111	977	405	614	178	522	288	.....
3	1900.....	99	138	252	237	113	422	133	1,768
4	All farmers classified by sex, 1920:								
5	Male.....	125	323	422	286	239	581	610	.....
6	Female.....	5	18	12	7	9	17	20	.....
7	Color and nativity of all farmers, 1920:								
8	Native white.....	111	329	277	236	211	518	476	.....
9	Foreign-born white.....	15	11	90	56	37	76	74	.....
10	Negro and other nonwhite.....	4	1	67	1	.....	4	80	.....
11	All farms classified by size, 1920:								
12	Under 3 acres.....		3	9	35	4	38	.....
13	3 to 9 acres.....	14	9	28	12	2	27	37	.....
14	10 to 19 acres.....	8	17	25	11	4	19	55	.....
15	20 to 49 acres.....	8	43	95	28	14	93	173	.....
16	50 to 99 acres.....	6	37	58	26	21	71	183	.....
17	100 to 174 acres.....	33	97	78	91	82	167	123	.....
18	175 to 250 acres.....	4	26	9	10	16	24	23	.....
19	251 to 499 acres.....	43	29	46	47	49	54	30	.....
20	500 to 999 acres.....	14	33	47	19	37	54	4	.....
21	1,000 acres and over.....		47	39	14	19	51	2	.....
LAND AND FARM AREA.									
22	Approximate land area, 1920:								
23	Land in farms. 1920.....	8,569,600	6,325,360	6,083,200	3,443,200	786,560	5,216,000	6,391,680	.....
24	1910.....	31,022	1,213,629	413,278	152,643	150,593	674,490	57,440	.....
25	1900.....	4,000	105,580	71,937	43,199	51,874	150,434	32,655	.....
26	Improved land in farms. 1920.....	5,851	1,017,068	71,172	45,767	50,289	67,744	23,704	43,173
27	1910.....	6,317	23,753	35,785	41,876	24,029	36,811	40,959	.....
28	1900.....	1,027	11,176	10,504	18,789	6,070	18,097	13,131	.....
29	Woodland in farms. 1920.....	1,948	4,621	9,399	15,777	4,481	14,022	6,844	26,631
30	Other unimproved land in farms, 1920.....	1,624	209,603	296	1,112	705	56,698	897	.....
31	Average acreage per farm, 1920.....	23,081	980,273	377,197	109,655	124,959	780,981	15,584	.....
VALUE OF FARM PROPERTY.									
32	All farm property. 1920.....	1,302,076	19,855,228	10,960,772	9,335,710	3,550,470	16,713,500	15,702,325	.....
33	1910.....	400,056	3,073,033	2,540,396	2,306,782	1,698,297	4,627,368	2,916,231	.....
34	1900.....	596,488	1,051,427	2,260,423	1,296,009	1,247,463	2,231,091	426,042	1,870,609
35	Land in farms. 1920.....	601,785	12,983,554	6,212,088	5,802,138	1,694,448	7,482,278	13,383,854	.....
36	1910.....	82,550	667,676	1,202,451	1,186,758	665,868	1,358,785	2,367,785	.....
37	1900.....	106,020	667,700	583,770	423,280	363,690	611,540	256,680	553,405
38	Farm buildings. 1920.....	142,320	1,000,870	684,741	637,862	352,490	1,060,035	784,456	.....
39	1910.....	25,615	198,690	277,800	172,810	110,802	313,450	140,140	.....
40	1900.....	35,980	71,100	158,100	148,080	70,920	242,900	38,840	43,210
41	Implements and machinery. 1920.....	66,346	270,072	444,124	613,453	194,480	455,295	702,835	.....
42	1910.....	12,210	50,801	96,131	88,232	55,769	101,275	78,241	.....
43	1900.....	13,770	20,890	40,100	45,990	21,670	69,030	23,950	68,630
44	Live stock on farms. 1920.....	431,025	5,501,732	3,619,819	2,282,206	1,309,052	7,715,052	831,180	.....
45	1910.....	339,681	2,155,866	964,014	858,982	859,988	2,854,236	330,065	.....
46	1900.....	440,715	291,737	1,478,303	678,639	791,183	1,307,561	108,492	1,205,304
47	Average values, 1920:								
48	All property per farm.....	10,016	58,226	25,255	31,863	14,316	27,949	24,924	.....
49	Land and buildings per farm.....	6,185	41,036	15,891	21,980	8,264	14,286	22,489	.....
50	Land alone per acre.....	21.33	10.70	15.03	38.01	11.25	8.56	233.01	.....
F FARMS OPERATED BY OWNERS.									
51	Number of farms. 1920.....	115	298	351	207	206	495	459	.....
52	1910.....	108	943	351	588	140	425	260	.....
53	1900.....	91	111	134	175	92	345	110	1,784
54	Per cent of all farms, 1920.....	88.5	87.4	80.9	70.6	83.1	82.8	72.9	.....
55	Land in farms, 1920.....	28,598	303,966	277,582	79,894	110,250	511,883	40,458	.....
56	Improved land in farms, 1920.....	5,666	13,881	16,221	18,154	12,822	26,860	26,794	.....
57	Value of land and buildings, 1920.....	706,940	2,788,841	3,645,095	3,346,525	1,491,443	5,928,410	9,470,410	.....
58	Degree of ownership, 1920:								
59	Farmers owning entire farm.....	113	273	315	199	181	419	396	.....
60	Farmers hiring additional land.....	2	25	36	8	25	70	63	.....
61	Color and nativity of owners, 1920:								
62	Native white owners.....	98	287	228	177	178	429	324	.....
63	Foreign-born white owners.....	14	10	63	30	28	64	59	.....
64	Negro and other nonwhite owners.....	3	1	60	.....	.....	2	76	.....
F FARMS OPERATED BY MANAGERS.									
65	Number of farms. 1920.....	3	16	21	17	4	22	23	.....
66	1910.....	2	3	23	8	5	28	5	.....
67	1900.....	7	3	45	32	11	42	6	2
68	Land in farms, 1920.....	486	674,563	114,573	61,113	21,574	200,148	3,554	.....
69	Improved land in farms, 1920.....	208	8,908	16,893	16,332	10,170	3,417	2,939	.....
70	Value of land and buildings, 1920.....	39,580	8,554,675	2,635,800	2,044,350	162,925	1,836,905	1,065,400	.....
F FARMS OPERATED BY TENANTS.									
71	Number of farms. 1920.....	12	27	62	69	38	81	148	.....
72	1910.....	1	31	31	18	31	23	23	.....
73	1900.....	1	24	73	30	10	35	17	12
74	Percent of all farms, 1920.....	9.2	7.9	14.3	23.5	15.3	18.5	23.5	.....
75	Land in farms, 1920.....	1,938	235,110	21,123	11,636	18,769	72,459	13,428	.....
76	Improved land in farms, 1920.....	443	984	2,671	7,390	1,937	6,534	11,226	.....
77	Value of land and buildings, 1920.....	57,585	2,649,908	615,934	1,049,125	392,570	777,898	3,032,500	.....
78	Form of tenancy, 1920:								
79	Share tenants.....	9	12	27	22	24	22	95	.....
80	Share-cash tenants.....	1	14	1	1	1	1	7	.....
81	Cash tenants.....	3	8	26	46	7	54	46	.....
82	Unspecified.....	1	1	1	1	7	4	4	.....
83	Color and nativity of tenants, 1920:								
84	Native white tenants.....	11	26	38	45	29	68	134	.....
85	Foreign-born white tenants.....	1	1	19	28	9	11	10
86	Negro and other nonwhite tenants.....	5	5	1	1	2	2	4

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COUNTY TABLE II.—LIVE STOCK ON FARMS AND RANGES,

		THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham.	Greenlee.	Maricopa.
DOMESTIC ANIMALS: 1920.									
1	Farms reporting domestic animals.....	number.	9,355	335	1,185	333	285	838	258
2	Value of all domestic animals.....	dollars.	51,555,815	3,003,066	4,397,760	4,255,808	2,974,135	2,856,742	2,726,141
3	Horses:								
4	Total number.....		136,167	17,751	7,539	15,105	4,533	4,964	13,763
5	Colts under 1 year of age.....		15,310	536	735	914	336	455	227
6	Colts 1 year old and under 2 years.....		8,318	900	682	644	324	452	183
7	Mares 2 years old and over.....		59,689	5,625	2,560	5,844	1,514	1,988	988
8	Geldings 2 years old and over.....		38,236	4,954	3,473	2,049	2,241	2,055	1,038
9	Stallions 2 years old and over.....		3,398	200	89	383	118	84	27
	Total value.....	dollars.	5,744,671	591,105	332,902	535,802	197,057	387,405	189,965
10	Mules:								
11	Total number.....		11,992	390	890	606	210	285	240
12	Mule colts under 1 year of age.....		515	56	87	28	4	10	14
13	Mule colts 1 year old and under 2 years.....		1,040	93	88	23	10	9	7
14	Mules 2 years old and over.....		10,428	241	715	555	198	266	219
	Total value.....	dollars.	1,415,397	27,325	69,008	53,332	19,650	25,108	14,399
15	Asses and burros:								
16	Total number.....		5,240	813	194	1,122	71	31	121
	Total value.....	dollars.	68,886	8,478	5,500	8,902	1,240	1,055	1,618
17	Cattle:								
18	Total number.....		821,918	43,850	88,909	45,203	62,590	50,939	65,200
	Total value.....	dollars.	35,500,759	1,936,584	3,864,040	2,018,593	2,704,145	2,054,473	2,489,608
19	Beef cattle—								
20	Total number.....		1768,197	142,516	84,275	144,552	62,300	47,287	64,800
21	Calves under 1 year of age.....		153,137	11,062	17,174	6,887	13,896	9,623	14,553
22	Heifers 1 year old and under 2 years.....		76,497	3,178	8,496	4,332	9,102	4,688	7,733
23	Cows and heifers 2 years old and over.....		429,480	19,851	51,141	23,014	33,039	27,740	38,404
24	Steers 1 year old and under 2 years.....		41,165	4,924	3,758	1,835	2,002	2,086	1,485
25	Steers 2 years old and over.....		41,819	1,572	1,598	5,117	047	1,430	851
26	Bulls 1 year old and over.....		22,774	398	2,108	1,033	2,024	1,811	1,574
	Total value.....	dollars.	31,930,866	1,860,032	3,577,218	1,972,725	2,680,639	1,824,039	2,447,206
27	Dairy cattle—								
28	Total number.....		53,721	1,334	4,634	656	200	3,652	600
29	Calves under 1 year of age.....		18,293	409	1,123	165	41	1,067	176
30	Heifers 1 year old and under 2 years.....		7,768	189	994	82	30	479	66
31	Cows and heifers 2 years old and over.....		31,619	707	2,409	398	213	2,037	348
32	Bulls 1 year old and over.....		1,041	29	109	11	6	69	10
	Total value.....	dollars.	3,569,393	70,552	286,822	45,870	23,606	230,434	42,402
33	Sheep:								
34	Total number.....		1,881,914	1,235,529	818	183,313	18	3,122	58
35	Lambs under 1 year of age.....		118,776	15,240	155	15,418	1	654	10
36	Ewes 1 year old and over.....		531,818	142,861	631	88,580	10	1,569	45
37	Rams 1 year old and over.....		37,880	7,036	9	8,903	2	207	3
38	Wethers 1 year old and over.....		69,411	1,228	23	5,552	692	-----	1,034
	Total value.....	dollars.	7,123,710	1,271,668	7,880	1,581,621	108	36,437	592
39	Goats:								
40	Total number.....		161,124	14,702	9,236	8,089	3,984	48,950	1,924
41	Kids under 1 year of age, raised for fleeces.....		22,803	7	1,498	-----	500	11,230	185
42	Goats 1 year old and over, raised for fleeces.....		71,138	402	7,696	-----	2,082	33,128	1,647
43	All other goats.....		67,183	14,293	42	8,089	802	4,601	92
	Total value.....	dollars.	810,793	53,201	44,190	39,600	21,150	289,402	9,435
44	Swine:								
45	Total number.....		49,599	858	4,050	961	1,978	4,218	1,209
46	Pigs under 6 months old.....		24,935	450	2,278	522	501	2,378	731
47	Sows and gilts for breeding, 6 months old and over.....		9,811	195	676	191	705	738	224
48	Boars for breeding, 6 months old and over.....		843	16	76	26	45	70	16
49	All other hogs, 6 months old and over.....		14,010	167	1,029	222	427	1,030	328
	Total value.....	dollars.	885,590	14,705	74,180	17,768	30,825	62,862	21,124
POULTRY AND BEES: 1920.									
50	Chickens.....	number.	495,065	8,037	40,903	9,041	6,316	34,057	8,842
51	Other poultry.....	number.	22,247	330	1,923	301	334	774	306
52	Value of all poultry.....	dollars.	640,595	8,532	57,036	12,725	8,132	38,192	9,897
53	Bees.....	number of hives.	23,174	45	2,213	28	87	1,705	353
54	Total value.....	dollars.	250,591	440	28,753	410	465	13,236	2,960
LIVE-STOCK PRODUCTS: 1919.									
55	Dairy products:								
56	Milk produced (as reported).....	gallons.	12,908,592	164,463	727,340	155,832	124,381	612,183	157,458
57	Milk sold.....	gallons.	6,707,170	1,235	232,904	40,172	87,480	109,693	60,629
58	Cream sold.....	gallons.	92,086	266	8,714	44	3,764	4,046	80
59	Butter fat sold.....	pounds.	762,599	100	11,323	50	472	40,637	150
60	Butter made on farms.....	pounds.	593,446	27,186	91,015	17,620	2,007	105,151	17,890
61	Butter sold.....	pounds.	103,597	6,844	29,752	2,597	75	23,233	6,420
62	Cheese made on farms.....	pounds.	90,119	2,200	33,697	200	-----	25,387	5,670
63	Value of dairy products ²	dollars.	2,745,329	18,170	224,221	32,327	67,169	122,471	39,520
64	Receipts from sale of dairy products.....	dollars.	2,481,144	6,224	175,820	23,230	66,213	69,216	33,265
	Average production of milk per dairy cow.....	gallons.	433	214	285	418	674	335	422
65	Eggs produced (as reported).....	dozens.	2,143,533	31,081	203,696	40,449	10,481	140,352	31,330
66	Eggs sold.....	dozens.	1,320,387	10,677	121,998	11,177	2,220	79,913	10,704
67	Chickens raised (as reported).....	number.	365,033	5,800	33,240	5,147	7,743	33,468	9,459
68	Chickens sold.....	number.	147,519	1,710	13,744	1,051	1,700	14,498	3,657
69	Value of chickens and eggs produced.....	dollars.	1,338,281	19,090	143,279	31,056	10,516	88,723	24,935
70	Receipts from sale of chickens and eggs.....	dollars.	738,821	6,259	80,000	8,162	2,881	47,008	8,926
71	Honey and wax:								
72	Honey produced.....	pounds.	926,621	480	63,003	1,120	2,165	81,183	23,031
73	Wax produced.....	pounds.	10,788	687	8	30	786	375	6,232
	Value of honey and wax.....	dollars.	217,976	110	14,800	262	512	19,026	5,400
74	Wool and mohair:								
75	Sheep shorn.....	number.	586,226	80,286	449	162,181	-----	1,580	14
76	Wool produced (as reported).....	pounds.	2,509,875	396,060	3,620	655,574	-----	3,394	98
77	Value.....	dollars.	1,149,474	189,261	1,448	288,150	-----	1,087	60
78	Goats shorn.....	number.	94,558	426	9,060	-----	5,467	47,705	15
79	Mohair produced (as reported).....	pounds.	357,628	648	38,618	-----	11,066	180,934	75
	Value.....	dollars.	192,351	285	19,600	-----	6,780	99,303	50

¹ Includes animals not classified.² Value of milk, cream, and butter fat sold, and of butter and cheese made on farms.

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51

1920; AND LIVE-STOCK PRODUCTS, 1919.

		Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.
DOMESTIC ANIMALS: 1920.								
1	Farms reporting domestic animals.....	number.	117	336	395	272	238	573
2	Value of all domestic animals.....	dollars.	426,575	5,578,525	3,590,716	2,250,295	1,205,514	7,661,162
Horses:								
3	Total number.....		1,048	27,179	23,729	3,412	2,373	5,743
4	Colts under 1 year of age.....		147	2,598	6,827	227	212	624
5	Colts 1 year old and under 2 years.....		129	2,264	694	326	247	533
6	Mares 2 years old and over.....		432	16,588	12,928	1,177	920	1,693
7	Geldings 2 years old and over.....		325	4,761	2,070	1,028	968	2,333
8	Stallions 2 years old and over.....		15	968	1,210	54	26	60
9	Total value.....	dollars.	56,504	790,014	457,532	236,434	87,244	328,259
Mules:								
10	Total number.....		73	640	971	418	350	525
11	Mule colts under 1 year of age.....		2	20	18	10	11	12
12	Mule colts 1 year old and under 2 years.....		2	5	378	6	11	18
13	Mules 2 years old and over.....		69	615	575	402	328	495
14	Total value.....	dollars.	7,180	83,734	60,084	45,375	15,795	59,510
Asses and burros:								
15	Total number.....		34	1,538	535	163	21	302
16	Total value.....	dollars.	275	15,920	4,740	1,191	414	3,669
Cattle:								
17	Total number.....		7,860	63,568	64,423	46,000	28,060	140,344
18	Total value.....	dollars.	341,840	2,563,358	2,800,599	1,498,453	1,172,687	6,275,798
Beef cattle—								
19	Total number.....		7,608	62,654	62,993	44,667	27,418	138,116
20	Calves under 1 year of age.....		1,358	12,100	8,184	11,367	6,333	24,775
21	Heifers 1 year old and under 2 years.....		815	5,944	4,089	3,775	3,520	13,041
22	Cows and heifers 2 years old and over.....		4,463	35,095	35,339	24,274	14,287	88,000
23	Steers 1 year old and under 2 years.....		404	3,899	1,333	2,244	1,013	4,648
24	Steers 2 years old and over.....		343	3,287	12,053	1,916	976	2,785
25	Bulls 1 year old and over.....		225	2,349	1,995	1,191	689	3,967
26	Total value.....	dollars.	329,094	2,501,178	2,671,223	1,604,661	1,127,519	6,122,082
Dairy cattle—								
27	Total number.....		252	914	1,430	1,333	642	2,228
28	Calves under 1 year of age.....		72	240	288	319	153	577
29	Heifers 1 year old and under 2 years.....		33	127	206	120	98	291
30	Cows and heifers 2 years old and over.....		145	525	905	876	382	1,332
31	Bulls 1 year old and over.....		2	22	31	18	9	21
32	Total value.....	dollars.	12,746	62,180	138,376	93,892	45,108	153,736
Sheep:								
33	Total number.....		423	281,956	14,638	11,321	-----	50,335
34	Lambs under 1 year of age.....		145	36,932	6,039	2,016	-----	8,738
35	Ewes 1 year old and over.....		234	171,477	8,081	9,150	-----	46,232
36	Rams 1 year old and over.....		5	14,142	515	154	-----	1,033
37	Wethers 1 year old and over.....		39	50,405	3	1	-----	332
38	Total value.....	dollars.	4,744	2,010,470	210,215	131,772	-----	7,367
Goats:								
39	Total number.....		1,803	36,126	2,356	3,885	22	29,378
40	Kids under 1 year of age, raised for fleeces.....		293	-----	450	97	7,843	-----
41	Goats 1 year old and over, raised for fleeces.....		730	14	1,336	1,945	3	21,479
42	All other goats.....		780	56,112	570	1,143	10	56
43	Total value.....	dollars.	11,621	80,056	9,841	30,076	246	210,260
Swine:								
44	Total number.....		325	1,182	1,796	5,948	821	4,056
45	Pigs under 6 months old.....		219	614	944	2,593	373	2,274
46	Sows and gilts for breeding, 6 months old and over.....		52	289	433	1,474	230	808
47	Boars for breeding, 6 months old and over.....		5	26	37	81	26	89
48	All other hogs, 6 months old and over.....		49	253	382	1,800	192	887
49	Total value.....	dollars.	4,411	19,073	32,705	100,994	10,128	74,515
POULTRY AND BEES: 1920.								
50	Chickens.....	number.	3,339	10,273	18,422	13,9(r)	9,890	25,528
51	Other poultry.....	number.	305	304	1,111	935	365	2,403
52	Value of all poultry.....	dollars.	4,461	11,142	23,646	17,616	12,886	30,858
53	Bees.....	number of hives.	100	228	606	1,454	133	1,493
54	Total value.....	dollars.	589	2,065	5,557	14,356	652	28,227
LIVE-STOCK PRODUCTS: 1919.								
Dairy products:								
55	Milk produced (as reported).....	gallons.	40,271	184,093	482,409	177,078	111,385	466,940
56	Milk sold.....	gallons.	8,420	13,280	375,721	72,717	55,715	220,600
57	Cream sold.....	gallons.	32	121	693	4,202	-----	1,165
58	Butter fat sold.....	pounds.	-----	500	275	5,235	4,483	525
59	Butter made on farms.....	pounds.	3,689	33,544	7,861	19,573	7,097	55,590
60	Butter sold.....	pounds.	672	10,507	3,777	5,874	2,045	36,403
61	Cheese made on farms.....	pounds.	-----	1,830	8,760	7,850	30	3,518
62	Value of dairy products ¹	dollars.	6,452	27,224	172,690	55,120	44,093	133,089
63	Receipts from sale of dairy products.....	dollars.	5,035	12,167	106,551	43,449	41,304	122,987
64	Average production of milk per dairy cow.....	gallons.	296	280	503	223	272	370
Eggs and chickens:								
65	Eggs produced (as reported).....	dozens.	4,807	36,200	78,480	56,393	40,656	117,816
66	Eggs sold.....	dozens.	851	13,777	40,030	15,085	20,484	38,216
67	Chickens raised (as reported).....	number.	1,533	7,844	12,022	8,972	8,889	25,945
68	Chickens sold.....	number.	450	2,264	5,798	2,914	3,207	10,469
69	Value of chickens and eggs produced.....	dollars.	3,040	25,111	54,325	36,155	36,183	89,708
70	Receipts from sale of chickens and eggs.....	dollars.	693	8,818	32,681	10,933	14,017	30,708
Honey and wax:								
71	Honey produced.....	pounds.	535	11,128	29,124	66,925	1,466	49,703
72	Wax produced.....	pounds.	-----	107	269	490	34	940
73	Value of honey and wax.....	dollars.	123	2,607	6,820	15,014	352	11,875
Wool and mohair:								
74	Sheep shorn.....	number.	431	234,750	88	10,422	-----	35,366
75	Wool produced (as reported).....	pounds.	2,320	733,758	838	61,066	-----	263,729
76	Value.....	dollars.	1,104	290,745	463	32,063	-----	148,529
77	Goats shorn.....	number.	1,545	10	2,056	1,900	3	26,371
78	Mohair produced (as reported).....	pounds.	2,795	60	8,047	5,504	15	103,974
79	Value.....	dollars.	1,506	35	4,342	2,702	8	57,080

¹ Value of milk, cream, and butter fat sold, and of butter and cheese made on farms.

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COUNTY TABLE III.—DOMESTIC ANIMALS NOT ON FARMS OR RANGES: 1920.

	THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham.	Greenlee.	Maricopa.
1 Inclosures reporting domestic animals.....	3,103	53	316	64	147	173	82	1,282
2 Horses, total number.....	6,107	207	517	253	682	195	125	1,909
3 Mules, total number.....	1,503	52	104	13	73	20	75	670
4 Asses and burros, total number.....	876	18	163	4	153	46	89	83
5 Cattle, total number.....	8,378	91	1,977	147	1,043	236	450	1,842
6 Dairy cows.....	2,472	60	199	52	260	145	97	1,262
7 Sheep, total number.....	777	162	-----	7	-----	-----	235	335
8 Goats, total number.....	988	47	463	22	-----	-----	-----	339
9 Swine, total number.....	2,017	47	118	64	231	213	86	451
	Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.	
1 Inclosures reporting domestic animals.....	12	137	146	138	71	154	329	
2 Horses, total number.....	13	258	420	195	249	416	668	
3 Mules, total number.....	2	22	18	94	50	192	118	
4 Asses and burros, total number.....	4	3	48	155	1	56	53	
5 Cattle, total number.....	9	310	859	139	165	173	937	
6 Dairy cows.....	8	86	41	49	40	37	146	
7 Sheep, total number.....	-----	10	8	-----	-----	13	7	
8 Goats, total number.....	-----	1	50	13	26	56	18	
9 Swine, total number.....	13	198	122	223	29	236	6	

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COUNTY TABLE IV.—VALUE OF ALL CROPS, AND ACREAGE AND PRODUCTION OF PRINCIPAL CROPS: 1919.

		THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham.	Greenlee.	Maricopa.	
VALUE OF ALL CROPS.										
1	Total.....	dollars.	42,481,230	533,750	1,219,430	758,635	246,988	2,560,332	370,758	24,054,416
2	Cereals.....	dollars.	5,464,931	210,863	295,917	282,769	76,711	770,346	142,897	2,455,192
3	Other grains and seeds.....	dollars.	1,100,980	7,720	123,908	7,488	7,062	11,578	1,716	144,671
4	Hay and forage.....	dollars.	10,658,211	223,206	497,398	164,597	83,194	1,515,538	152,435	5,510,951
5	Vegetables.....	dollars.	1,794,699	81,927	189,204	267,636	45,998	45,886	38,014	749,359
6	Fruits and nuts.....	dollars.	1,301,130	9,523	111,301	36,145	33,875	79,710	35,004	821,737
7	All other crops.....	dollars.	22,071,270	527	1,612	180	128,324	692	14,372,506	
SELECTED CROPS (acres harvested and production).										
8	Cereals:									
9	Total.....	acres.	126,896	6,727	9,204	6,587	2,363	15,100	2,707	50,782
10	Corn.....	bushels.	3,172,549	146,153	182,415	207,005	30,370	400,639	83,723	1,415,474
11	Oats.....	acres.	22,150	1,222	2,384	302	2,061	2,102	1,501	1,005
12	Oats.....	bushels.	446,208	21,896	43,791	5,543	33,865	47,813	42,233	41,071
13	Wheat.....	acres.	11,882	3,045	36	4,217	1	101	578	1,257
14	Wheat.....	bushels.	377,785	88,065	926	159,710	30	3,138	22,798	42,525
15	Barley.....	acres.	37,131	1,020	237	1,536	215	6,609	347	17,366
16	Barley.....	bushels.	835,374	10,705	3,687	30,988	3,138	189,238	8,430	433,589
17	Kafir, milo, etc.....	acres.	21,748	785	180	268	67	4,174	237	12,505
18	Kafir, milo, etc.....	bushels.	656,835	18,684	4,217	7,470	1,677	142,223	9,150	381,329
19	Other grains and seeds:									
20	Dry edible beans.....	acres.	9,428	246	2,873	117	131	377	69	102
21	Dry edible beans.....	bushels.	82,090	1,574	24,168	1,097	1,485	2,168	385	1,076
22	Hay and forage:									
23	Total.....	acres.	197,498	6,962	24,131	5,365	2,817	15,909	2,688	84,118
24	All tame or cultivated grasses.....	tons.	494,086	10,271	29,658	7,707	4,327	6,636	6,696	250,452
25	Timothy alone.....	acres.	120,007	4,384	3,935	1,185	519	12,849	1,819	69,292
26	Timothy alone.....	tons.	354,257	6,661	7,913	2,080	1,083	58,083	5,209	202,384
27	Timothy and clover mixed.....	acres.	309	201	3	30	-----	-----	-----	-----
28	Timothy and clover mixed.....	tons.	411	305	1	30	-----	-----	-----	-----
29	Clover alone.....	acres.	368	79	-----	21	-----	-----	-----	-----
30	Clover alone.....	tons.	530	129	-----	40	-----	-----	-----	52
31	Alfalfa.....	acres.	193	14	-----	6	-----	-----	-----	98
32	Alfalfa.....	tons.	272	23	7	-----	-----	-----	-----	-----
33	Other tame or cultivated grasses.....	acres.	109,633	3,594	2,606	814	388	12,282	1,603	60,071
34	Other tame or cultivated grasses.....	tons.	337,622	5,488	6,020	1,651	810	58,283	5,046	195,498
35	Wild, salt, or prairie grasses.....	acres.	9,504	498	1,320	314	131	567	156	3,169
36	Small grains cut for hay.....	acres.	8,304	476	4,375	107	105	219	36	276
37	Small grains cut for hay.....	tons.	7,802	585	3,615	64	190	157	38	477
38	Annual legumes cut for hay.....	acres.	23,093	1,027	651	3,326	974	921	291	2,726
39	Annual legumes cut for hay.....	tons.	29,609	1,618	810	4,256	1,205	1,112	385	4,000
40	Silage crops.....	acres.	1,136	2	252	15	64	22	17	156
41	Silage crops.....	tons.	1,488	1	224	27	75	-----	17	377
42	Corn cut for forage.....	acres.	7,254	649	139	-----	-----	387	82	4,327
43	Corn cut for forage.....	tons.	42,963	1,803	205	-----	-----	2,959	674	26,096
44	Kafir, sorghum, etc., for forage.....	acres.	8,677	734	1,179	519	346	253	244	1,058
45	Kafir, sorghum, etc., for forage.....	tons.	14,344	879	1,589	876	221	578	201	4,845
46	Root crops for forage.....	acres.	28,946	888	13,000	74	809	1,280	192	5,683
47	Root crops for forage.....	tons.	44,108	523	13,639	109	1,553	1,147	414	11,673
48	Vegetables:									
49	Potatoes (Irish or white).....	acres.	2,605	143	98	1,464	56	18	28	90
50	Potatoes (Irish or white).....	bushels.	174,801	17,486	7,399	94,880	5,540	1,437	1,525	5,880
51	Sweet potatoes and yams.....	acres.	317	2	141	8	-----	49	16	54
52	Other vegetables.....	acres.	34,474	310	17,069	740	25	5,259	1,402	4,826
53	Miscellaneous crops:									
54	Cotton.....	acres.	106,283	-----	-----	-----	498	-----	75,082	38,889
55	Cotton.....	bales.	59,361	-----	-----	-----	336	-----	-----	-----
FRUITS.										
56	Small fruits:									
57	Total.....	acres.	58	8	2	1	1	1	28	
58	Total.....	quarts.	62,467	250	3,145	1,314	1,011	-----	322	35,130
Orchard fruits:										
59	Trees not of bearing age.....	acres.	82,649	2,157	23,582	2,443	3,516	4,544	3,627	14,810
60	Trees of bearing age.....	acres.	241,433	4,974	33,836	8,328	5,278	15,200	6,522	106,088
61	Bushels harvested.....	acres.	362,880	3,743	42,434	14,218	13,354	31,208	12,480	145,087
62	Apples.....	acres.	35,977	1,355	11,915	1,174	1,581	2,273	1,312	2,257
63	Apples.....	bushels.	70,273	2,053	7,364	4,299	1,708	8,835	2,240	11,160
64	Peaches.....	acres.	120,765	2,201	12,146	7,564	5,455	18,978	5,107	12,046
65	Peaches.....	bushels.	26,681	300	7,402	922	1,122	1,197	1,374	6,377
66	Peaches.....	acres.	101,855	2,230	22,514	2,992	2,813	4,206	2,193	44,654
67	Pears.....	acres.	138,361	669	27,497	5,207	5,852	9,305	4,888	54,185
68	Pears.....	bushels.	7,716	163	1,905	183	255	479	243	1,610
69	Pears.....	acres.	12,359	158	1,254	420	276	740	533	5,308
70	Pears.....	bushels.	18,201	169	1,080	518	823	951	1,044	8,018
71	Plums and prunes.....	acres.	6,795	137	1,644	62	468	445	561	1,603
72	Plums and prunes.....	bushels.	15,713	438	1,986	252	260	1,027	1,431	7,244
73	Apricots.....	acres.	23,788	634	1,111	499	704	1,649	2,245	12,888
74	Apricots.....	bushels.	4,072	195	33	33	112	78	2,891	2,891
75	Apricots.....	acres.	39,464	49	410	236	96	336	69	37,355
76	Apricots.....	bushels.	60,483	453	283	502	367	164	57,552	
77	Grapes.....	vines not of bearing age.	34,905	33	16,943	228	340	1,457	323	9,181
78	Grapes.....	vines of bearing age.	83,018	118	8,169	904	264	3,566	692	50,002
79	Grapes.....	pounds harvested.	689,673	40	53,966	661	3,076	32,789	12,035	529,963
80	Subtropical fruits:									
81	Figs.....	acres.	1,720	151	11	10	40	5	1,287	
82	Figs.....	bushels.	3,719	94	132	71	74	-----	2,632	
83	Oranges.....	acres.	120,849	4,230	4,059	1,650	2,855	-----	93,571	
84	Oranges.....	bushels.	13,302	-----	-----	-----	-----	-----	12,270	
85	Grapefruit.....	acres.	46,052	-----	-----	-----	-----	-----	46,600	
86	Grapefruit.....	bushels.	79,037	-----	-----	-----	-----	-----	79,596	
87	Olives.....	acres.	12,768	-----	-----	-----	-----	-----	11,466	
88	Olives.....	bushels.	18,819	-----	-----	-----	-----	-----	18,811	
89	Olives.....	acres.	28,090	-----	-----	-----	-----	-----	27,987	
90	Olives.....	bushels.	7,522	-----	-----	-----	-----	-----	8,710	
91	Olives.....	acres.	7,303	-----	-----	-----	-----	25	7,313	
	Olives.....	bushels.	112,561	-----	-----	-----	-----	1,500	111,061	

AGRICULTURE—ARIZONA.

COUNTY TABLE IV.—VALUE OF ALL CROPS, AND ACREAGE AND PRODUCTION OF PRINCIPAL CROPS: 1919—Continued.

		Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.
VALUE OF ALL CROPS.								
1 Total.....	dollars.....	87,081	481,526	870,465	1,505,382	313,393	998,527	8,480,541
2 Cereals.....	dollars.....	15,035	166,612	78,853	379,831	147,648	286,753	166,513
3 Other grains and seeds.....	dollars.....	127	19,895	185,955	12,304	36,192	14,319	527,984
4 Hay and forage.....	dollars.....	56,491	180,774	443,103	736,395	108,456	405,237	580,436
5 Vegetables.....	dollars.....	8,446	84,483	62,100	43,876	13,532	155,018	19,182
6 Fruits and nuts.....	dollars.....	5,354	26,893	10,357	39,871	6,549	156,189	12,622
7 All other crops.....	dollars.....	1,623	2,868	94,097	293,015	1,016	1,011	7,173,824
SELECTED CROPS (acres harvested and production).								
8 Cereals:								
9 Total.....	acres.....	712	5,336	2,121	10,470	4,701	6,279	3,827
10 Corn.....	bushels.....	8,108	98,523	42,796	198,640	88,107	150,341	102,195
11 Oats.....	bushels.....	518	2,702	1,047	526	1,798	4,127	75
12 Wheat.....	bushels.....	3,025	46,662	18,086	8,705	34,438	98,220	820
13 Barley.....	bushels.....	1,409	57	2			548	11
14 Kafir, milo, etc.....	bushels.....	37,639	2,280	44			19,230	400
15 Alfalfa.....	acres.....	84	1,112	612	6,223		348	022
16 Barley.....	bushels.....	1,883	13,728	9,441	101,508		5,419	16,690
17 Timothy alone.....	acres.....	102	12	89	2,425	10	444	370
18 Timothy and clover mixed.....	acres.....	3,070	348	4,630	65,310	210	11,301	7,226
19 Clover alone.....	acres.....	2	5	301	1,293	2,893	810	2,449
20 Other grains and seeds:								
21 Dry edible beans.....	acres.....	3	254	4,208	109	676	263	10
22 Hay and forage:								
23 Total.....	acres.....	1,445	5,532	10,113	13,560	4,412	11,513	8,943
24 All tame or cultivated grasses.....	tons.....	2,778	9,362	23,842	32,919	6,237	20,711	24,790
25 Timothy alone.....	acres.....	941	2,542	2,314	6,638	1,308	4,977	7,308
26 Timothy and clover mixed.....	acres.....	1,730	5,057	7,660	21,281	1,662	11,003	21,791
27 Clover alone.....	acres.....	32	4				19	20
28 Alfalfa.....	acres.....	28	6				15	20
29 Timothy and clover mixed.....	acres.....	249	6				13	
30 Clover alone.....	acres.....	346	8				7	
31 Alfalfa.....	acres.....	87					20	
32 Other tame or cultivated grasses.....	acres.....	88					27	
33 Timothy and clover mixed.....	acres.....	1,810	1,894	1,790	6,469	243	3,922	7,087
34 Timothy alone.....	acres.....	1,474	4,213	6,768	21,027	602	9,419	21,325
35 Timothy and clover mixed.....	acres.....	131	280	514	169	1,063	1,003	185
36 Wild, salt, or prairie grasses.....	acres.....	256	382	880	264	1,060	1,535	417
37 Small grains cut for hay:								
38 Small grains cut for hay.....	acres.....	20	462	23	2	774	1,467	22
39 Small grains cut for hay.....	tons.....	20	282	25	2	838	1,454	55
40 Annual legumes cut for hay:								
41 Corn cut for forage.....	acres.....	219	655	5,025	4,144	1,214	1,590	330
42 Corn cut for forage.....	tons.....	278	700	6,234	5,428	1,201	1,851	466
43 Silage crops.....	acres.....	75	167	747	267	8	25	48
44 Kafir, sorghum, etc., for forage.....	acres.....	325	543	6,096	1,072	855	1,580	51
45 Kafir, sorghum, etc., for forage.....	tons.....	132	1,412	396	125	83	1,540	80
46 Root crops for forage.....	acres.....	180	2,052	797	115	136	1,795	1,186
47 Root crops for forage.....	tons.....	58	284	1,341	2,222	854	1,565	2,324
48 Root crops for forage.....	acres.....	250	695	2,771	4,604	1,444	2,962	
49 Vegetables:								
50 Potatoes (Irish or white).....	acres.....	8	134	29	5	33	399	2
51 Sweet potatoes and yams.....	bushels.....	582	4,809	2,180	211	946	31,446	50
52 Other vegetables.....	acres.....	2		12	9		10	5
53 Other vegetables.....	acres.....	109		14	1,369	1,170	2,051	340
54 Other vegetables.....	acres.....	26	80	242	321	29	157	88
55 Miscellaneous crops:								
56 Cotton.....	acres.....			804	2,420			27,499
56 Cotton.....	bales.....			233	787			19,306
FRUITS.								
57 Small fruits:								
58 Orchard fruits:								
59 Total.....	acres.....	4	182	7		6		1
60 Total.....	quarts.....	6,265		6,660	152	6,930		1,100
61 Orchard fruits:								
62 Apples.....	trees not of bearing age.....	453	1,680	2,963	5,332	3,122	13,638	782
63 Apples.....	trees of bearing age.....	1,049	5,409	7,272	8,709	3,305	33,342	1,241
64 Apples.....	bushels harvested.....	1,882	10,220	6,285	15,222	2,489	61,707	1,373
65 Peaches.....	trees not of bearing age.....	203	997	431	2,508	2,065	7,886	40
66 Peaches.....	trees of bearing age.....	904	3,753	353	5,010	1,538	20,936	30
67 Pears.....	trees not of bearing age.....	144	315	184	11,265	839	36,345	30
68 Pears.....	trees of bearing age.....	759	740	2,140	569	2,984	275	
69 Pears.....	bushels harvested.....	1,255	558	5,385	2,850	1,157	8,785	554
70 Plums and prunes.....	trees not of bearing age.....	47	148	326	342	204	1,468	343
71 Plums and prunes.....	trees of bearing age.....	116	232	477	646	185	1,640	365
72 Apricots.....	trees not of bearing age.....	131	658	186	588	160	3,539	336
73 Apricots.....	trees of bearing age.....	115	683	251	244	183	945	67
74 Apricots.....	bushels harvested.....	80	710	171	292	114	2,663	26
75 Grapes.....	vines not of bearing age.....	918	123	1,041	141	88	51	57
76 Grapes.....	vines of bearing age.....	7,481	235	5,325	208	52	99	174
77 Subtropical fruits:								
78 Figs.....	trees not of bearing age.....	1	37	23	19	7		129
79 Figs.....	trees of bearing age.....	65	40	223	4	32		362
80 Oranges.....	pounds harvested.....	1,670	775	8,055	183	1,231	11,570	1,085
81 Oranges.....	trees not of bearing age.....			7				
82 Oranges.....	trees of bearing age.....			28				24
83 Grapefruit.....	trees not of bearing age.....			39				2
84 Grapefruit.....	trees of bearing age.....			100				1,177
85 Olives.....	boxes harvested.....			2				504
86 Olives.....	trees not of bearing age.....			6				1,002
87 Olives.....	trees of bearing age.....			12				800
88 Olives.....	pounds harvested.....			25				

AGRICULTURE—ARIZONA.

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COUNTY TABLE V.—MORTGAGE DEBT, 1920; AND EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1919.

	THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham.	Greenlee.	Mariopa.
MORTGAGE DEBT REPORTS: 1920.								
1	For all farms operated by owners:							
1	Number free from mortgage debt.....	3,708	218	695	217	217	325	85
2	Number with mortgage debt.....	3,380	48	307	62	21	362	98
3	Number with no mortgage report.....	781	44	134	34	10	47	16
4	For farms consisting of owned land only:							
4	Number of farms reporting amount of debt.....	2,876	30	221	40	17	309	88
5	Value of land and buildings.....dollars.	50,452,939	502,400	1,404,355	468,935	126,500	2,970,712	1,326,190
6	Amount of mortgage debt.....dollars.	15,048,280	141,139	438,586	138,523	42,470	1,003,843	451,249
7	Ratio of debt to value.....per cent.	31.0	28.1	31.2	29.5	33.6	33.7	34.0
8	Average rate of interest paid.....per cent.	7.5	8.1	7.8	7.2	8.5	6.1	8.5
FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919.								
9	Labor:							
9	Farms reporting.....number.	5,639	121	432	211	128	519	142
10	Total expenditure.....dollars.	8,442,276	121,303	278,742	208,483	89,592	329,733	111,947
11	Amount in cash.....dollars.	7,062,620	84,258	207,065	173,193	66,808	307,204	80,210
12	Value of rent and board furnished.....dollars.	778,056	37,135	70,777	35,290	22,694	22,409	31,737
13	Fertilizer:							
13	Farms reporting.....number.	126	4	22	2	2	2	1
14	Amount expended.....dollars.	40,892	825	5,173	106	1,885	2,160	25
15	Feed:							
15	Farms reporting.....number.	4,906	89	734	192	101	306	117
16	Amount expended.....dollars.	2,050,855	42,297	191,304	63,764	61,212	59,333	24,010
MORTGAGE DEBT REPORTS: 1920.								
	Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.	
1	For all farms operated by owners:							
1	Number free from mortgage debt.....	72	157	148	112	124	258	184
2	Number with mortgage debt.....	10	102	145	59	70	143	229
3	Number with no mortgage report.....	33	39	58	36	12	94	46
4	For farms consisting of owned land only:							
4	Number of farms reporting amount of debt.....	9	84	130	53	63	116	181
5	Value of land and buildings.....dollars.	143,400	1,057,010	1,590,420	1,123,280	449,724	1,484,655	4,731,250
6	Amount of mortgage debt.....dollars.	23,900	349,302	747,027	202,250	129,806	498,975	1,339,690
7	Ratio of debt to value.....per cent.	16.7	33.0	47.0	18.0	28.9	33.6	28.3
8	Average rate of interest paid.....per cent.	7.1	7.2	6.6	7.4	6.4	7.6	7.8
FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919.								
9	Labor:							
9	Farms reporting.....number.	28	113	233	163	157	314	412
10	Total expenditure.....dollars.	22,613	171,664	237,942	369,650	89,708	519,214	1,005,804
11	Amount in cash.....dollars.	17,062	130,927	204,223	314,912	71,365	374,460	980,958
12	Value of rent and board furnished.....dollars.	4,951	40,737	23,719	54,738	18,343	144,754	24,846
13	Fertilizer:							
13	Farms reporting.....number.	.....	.....	4	4	1	12	4
14	Amount expended.....dollars.	.....	.....	278	370	200	2,175	425
15	Feed:							
15	Farms reporting.....number.	54	131	190	144	134	387	279
16	Amount expended.....dollars.	18,073	91,037	76,607	91,057	31,601	180,533	110,487

IRRIGATION—ARIZONA.

INTRODUCTION.

The following pages present the statistics of irrigation for the state of Arizona collected at the census of 1920. Statistics of acreage irrigated, of acreage, yield, and value of crops grown on irrigated land, and of cost of operation and maintenance relate to the year 1919; other items relate to the year 1920. Throughout the report figures for the census of 1910 are given for purposes of comparison: and, for the purpose of

showing the historical development of irrigation, items which have been reported in censuses previous to 1910 are presented.

Statistics of number of farms irrigated and of acreage, yield, and value of crops grown on irrigated land were collected in the general census of agriculture. All other statistics were obtained in a special canvass of irrigation enterprises.

TABLE 1.—SUMMARY FOR THE STATE: 1920 AND 1910.

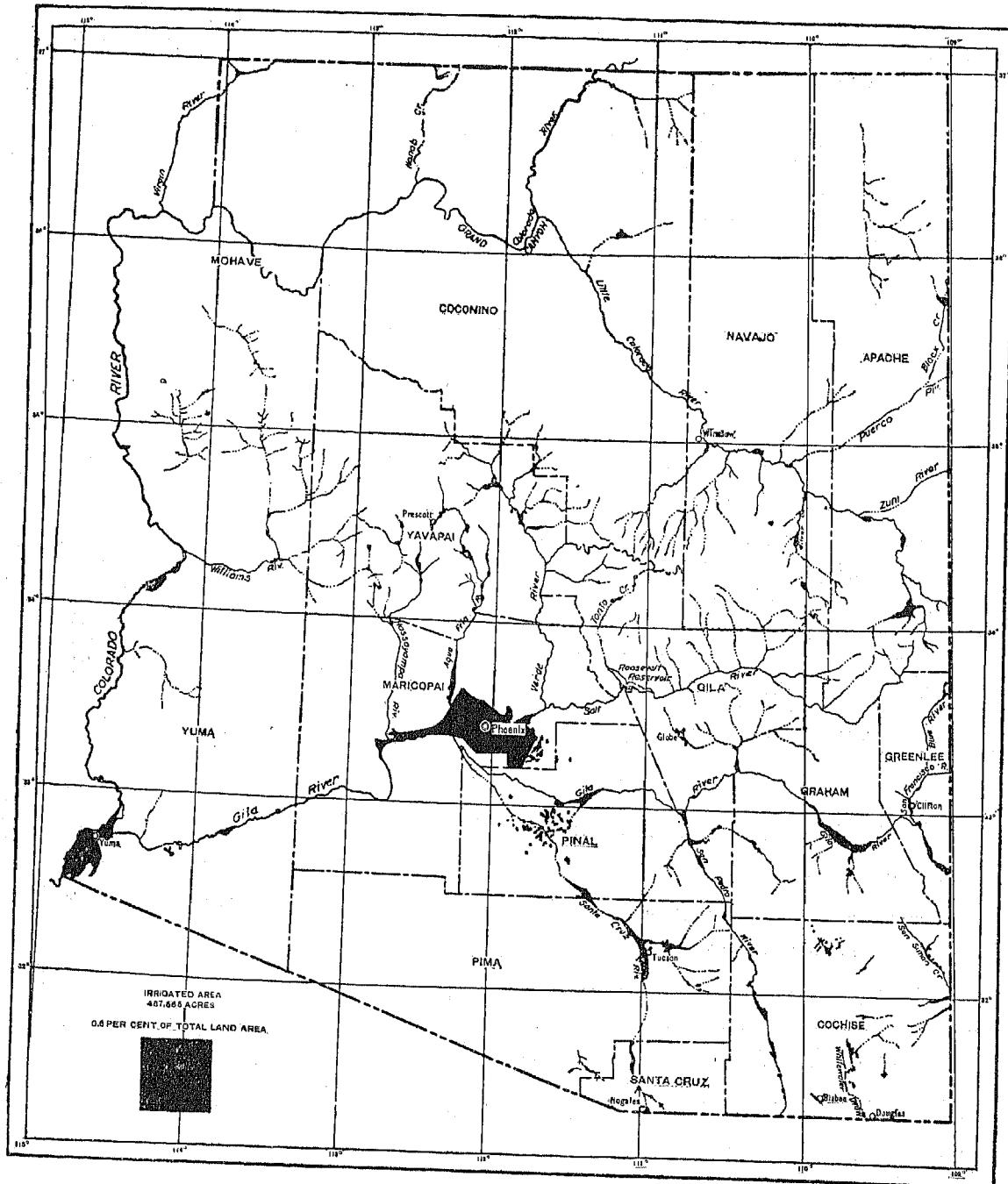
ITEM.	CENSUS OF—		INCREASE. ¹	
	1920	1910	Amount.	Per cent.
Number of all farms.....	9,975	9,227	748	8.1
Approximate land area of the state.....acres..	72,838,400	72,838,400	.....	.....
All land in farms.....acres..	5,802,126	1,246,613	4,555,513	365.4
Improved land in farms.....acres..	712,803	350,173	362,630	103.6
Number of farms irrigated.....	6,605	4,841	1,764	36.4
Area irrigated.....acres..	467,565	320,051	147,514	46.1
Area enterprises were capable of irrigating.....acres..	627,303	387,655	239,648	61.8
Area included in enterprises.....acres..	813,153	944,090	-130,937	-13.9
Per cent irrigated:				
Number of all farms.....	66.2	52.5	13.7	.....
Approximate land area of the state.....	0.6	0.4	0.2	.....
Land in farms.....	8.1	25.7	-17.6	.....
Improved land in farms.....	65.6	91.4	-25.8	.....
Excess of area enterprises were capable of irrigating over area irrigated.....acres..	159,738	67,604	92,134	136.3
Excess of area included in enterprises over area irrigated.....acres..	185,850	624,039	-438,189	-70.2
Area of irrigated land reported as available for settlement.....acres..	24,341	(2)	.....	.....
Capital invested.....	\$33,498,094	\$17,677,966	\$15,820,128	89.5
Average per acre enterprises were capable of irrigating.....	\$53.40	\$45.60	\$7.80	17.1
Estimated final cost of existing enterprises.....	\$34,615,064	\$24,828,868	\$9,786,196	38.4
Average per acre included in enterprises.....	\$42.57	\$26.30	\$16.27	61.9
Average cost of operation and maintenance per acre.....	\$3.27	\$0.93	\$2.34	251.6
IRRIGATION WORKS.				
Number of enterprises.....	1,388	1,269	119	9.4
Number of main ditches.....	1,295	891	404	45.3
Length of main ditches.....miles..	1,769	1,727	42	2.4
Capacity of main ditches.....second-feet..	11,707	17,200	-5,493	-31.9
Number of lateral ditches.....	1,174	313	861	275.1
Length of lateral ditches.....miles..	1,599	870	729	83.8
Number of reservoirs.....	340	402	-62	-15.4
Capacity of reservoirs.....acre-feet..	1,510,856	1,349,938	160,918	11.9
Number of flowing wells.....	310	214	96	44.9
Capacity of flowing wells.....gallons per minute..	14,547	9,953	4,594	46.2
Number of pumped wells.....	999	470	529	112.6
Capacity of pumped wells.....gallons per minute..	1,042,590	765,921	276,669	36.1
Number of pumping plants.....	744	429	315	73.4
Engine capacity.....horsepower..	22,014	37,258	-15,244	-40.9
Pump capacity.....gallons per minute..	1,048,030	851,873	196,157	23.0
Average lift.....feet..	44	(2)	44	.....

¹ A minus sign (—) denotes decrease.

² Not reported in 1910.

ARIZONA

APPROXIMATE LOCATION AND EXTENT OF IRRIGATED LAND.



EXPLANATION OF TERMS.

Farms irrigated.—The number of "farms irrigated" is the number on which irrigation is practiced, and for the purposes of this inquiry a "farm" is defined as for the general census of agriculture; that is, to be classed as a farm an establishment either must be 3 acres in extent or must have produced crops to the value of \$250 in 1919, or must have required for its agricultural operations the continuous services of at least one person. "Number of farms irrigated" as used in this report and in that of 1910, is equivalent to the term "number of irrigators" used in census reports on irrigation previous to 1910.

Irrigation enterprise.—An "enterprise" is an independent irrigation establishment and includes the works for supplying water and the land to which water is supplied or is to be supplied, except that the cost or value of the land is not included in the "capital invested."

Acreage irrigated, in enterprises, and available for settlement.—Acreage irrigated is the acreage to which water was actually applied in the season preceding the census year—1919 for the Fourteenth Census and 1909 for the Thirteenth Census.

Acreage to which enterprises were capable of supplying water relates to the season following the time of taking the census and, consequently, is based on estimates made by those controlling the enterprises.

Acreage included in enterprises represents the extent of the plans of those controlling enterprises.

Acreage of irrigated land reported as available for settlement relates to land within existing enterprises and not to land that is susceptible of reclamation and settlement by new enterprises or extensions of existing enterprises.

Types of enterprises.—The types of enterprises under which all data are classified are as follows:

United States Reclamation Service enterprises, which operate under the Federal law of June 17, 1902, providing for the construction of irrigation works with the receipts from the sale of public lands. In addition to serving land within its own projects, the United States Reclamation Service supplies stored water to land within other enterprises.

United States Indian Service enterprises, which operate under various acts of Congress providing for the construction by that service of works for the irrigation of land in Indian reservations.

Carey Act enterprises, which operate under the Federal law of August 18, 1894, granting to each of the states in the arid region 1,000,000 acres of land on condition that the state provide for its irrigation, and under amendments to that law granting additional areas to Idaho and Wyoming.

Irrigation districts, which are public corporations that operate under state laws providing for their organization and management, and empowering them to issue bonds and levy and collect taxes with the object of obtaining funds for the purchase or construction and for the operation and maintenance of irrigation works.

Cooperative enterprises, which are controlled by the water users under some organized form of cooperation. The most common form of organization is the stock company, the stock of which is owned by the water users.

Commercial enterprises, which supply water for compensation to parties who may own no interest in the works.

Individual and partnership enterprises, which belong to individual farmers or to neighboring farmers, who control them without formal organization.

Capital invested.—The capital invested in irrigation enterprises is that reported by the owners. For the larger works the capital invested is taken, in most cases, from books of account and represents the actual investment. In the case of most of the private and partnership and many of the cooperative enterprises, however, the works were built by their owners without records of money or labor expended, and the capital reported represents the owners' estimates. The schedules used in 1910 called for "cost," while the

schedules used in the present census called for "capital invested," but the instructions accompanying the schedules make these two terms equivalent. In both cases the investment includes cost of construction and of acquiring rights. The latter usually consists of filing fees only, but in some instances it includes the purchase price of rights. However, these cases are so rare that they are unimportant. The cost reported for 1900 is designated "cost of construction," but probably includes the cost of acquiring rights, as in 1910. For the Thirteenth and Fourteenth Censuses the average cost per acre is based on the acreage which enterprises were capable of irrigating in the census year and the cost to the date of the census—January 1, 1920, for the Fourteenth Census, and July 1, 1910, for the Thirteenth Census.

Operation and maintenance.—Cost of operation and maintenance was not reported on all schedules, and averages are based on the acreages for which cost is reported. No estimate of total cost of operation and maintenance for all irrigation enterprises has been made. In the case of enterprises operating pumping plants the cost of operation and maintenance includes cost of fuel and attendance.

Water rights.—The acreage irrigated has been classified by the character of rights under which water is received. The classes used are defined as follows:

"*Appropriation and use*" includes all rights acquired without formalities of any kind that have not been defined by the courts.

"*Notice filed and posted*" includes rights for which claims of some kind have been either posted or filed that have not been defined by the courts.

"*Adjudicated by court*" includes all rights that have been defined by the courts.

"*Permit from state*" includes all rights initiated under laws requiring any party wishing to acquire rights to obtain a permit from the state.

"*Certificate or license from the state*" includes rights acquired under laws providing for the issuing by the state of certificates or licenses defining rights acquired.

"*Riparian rights*" includes rights based on the ownership of riparian land.

"*Underground*" represents water taken from wells.

Source of water supply.—In classifying acreage by source of supply from which water for irrigation is obtained, in 1910 acreage was credited to what seemed to be the principal source of supply, while in the census of 1920 the attempt is made to represent the facts more nearly by presenting various mixed classes.

Date of beginning.—The date of beginning of irrigation enterprises is, in some cases, the date when construction began, and, in other cases, the date of filing a claim or of applying for a permit. If a filing or application for permit was made and work was begun and continued with reasonable diligence the date of filing is considered the date of beginning, otherwise the date of construction is taken as the date of beginning.

Drainage basin.—The drainage basin of a stream is all of the land drained by the stream and its tributaries.

Units of quantity and capacity.—Capacities of canals, reservoirs, wells, pumps, and engines, and quantities of water used are expressed in the units commonly used in engineering literature to express the same items. They are as follows:

Capacities of canals and volumes of flowing water are given in second-feet, a shorter equivalent for cubic feet per second.

Capacities of wells and pumps are given in gallons per minute. Four hundred and fifty gallons per minute equal 1 second-foot.

Capacities of reservoirs are given in acre-feet. An acre-foot is the quantity of water that will cover 1 acre to a depth of 1 foot. It equals 43,560 cubic feet.

Capacities of engines and motors are given in horsepower. One horsepower is the power required to lift 33,000 pounds through a vertical distance of 1 foot in 1 minute of time.

CLIMATIC CONDITIONS.

The whole of the state of Arizona may be classed as arid, although there are small parts of the state where some crops are grown without irrigation.

The central part of the state is mountainous, while the remainder of the state consists of extensive valleys or plateaus broken by isolated ranges of mountains and hills.

In the valley of the Colorado River, in the northwestern part of the state, the normal annual precipitation is about 10 inches, while in the mountains in the central part of the state it varies from 18 to 25 inches. In the northeastern part of the state, on the rolling plateau, the precipitation drops below 10 inches. On the lower Colorado and the Gila Rivers the average annual precipitation is below 5 inches, and to the east of this it increases, being about 7 inches at Phoenix, in the Salt River Valley; about 6 inches at Maricopa, in the Gila River Valley; and about 12 inches at Tucson. It is higher at many points which lie at higher elevations.

Throughout the state the larger part of the precipitation occurs in July, August, and early September, while the driest part of the year is April, May, and June.

Crops are grown without irrigation in the valleys of the Little Colorado, Hassayampa, and Agua Fria Rivers, and at many other points in the state that receive more than the average precipitation, but on the plateaus in northern Arizona and in the extensive valleys in southern Arizona no crops can be grown in this way.

The rainfall varies greatly from year to year, much of it coming in very heavy torrential storms that may do heavy damage by washing out crops, irrigation structures, and bridges.

The heat in the arid valleys is intense, and evaporation is great, making large quantities of water necessary to maintain plant growth.

In 1919 the spring was cold and late, and precipitation for the first six months of the year was below normal, but conditions improved later in the season, and the report of the United States Weather Bureau for Arizona states that "1919 was perhaps the most favorable year on record for both agriculture and live stock," and "crops both in the dry farming sections and under the irrigation projects were rated better than 100 per cent."

WATER SUPPLY FOR IRRIGATION.

With the exception of Colorado River all of the streams in Arizona are torrential in character, because of the limited and variable precipitation. Colorado River has its sources in the high, snow-covered moun-

tains in Wyoming and Colorado, and maintains a good summer flow, although it is subject to heavy floods. Throughout its course in northern Arizona this stream flows through the Grand Canyon, and along most of the distance where it forms the boundary between Arizona and Nevada and Arizona and California there is very little land on which its water can be utilized. Near the southwest corner of the state water is diverted for use in both Arizona and California, and up to the present the normal low-water flow has been sufficient to meet the demands of both states. Extension of the areas irrigated will require storage, and plans that will provide for the largest use of the stream are being studied.

The Little Colorado rises in east central Arizona and flows in a northwesterly direction to its junction with Colorado River in the north central part of the state. The stream does not carry a large volume of water at any time, and gets very low or entirely dry at times during the summer. Consequently it is not a dependable source of water for irrigation. Plans for storage have been studied, but no large scheme has been carried out. The northeastern part of the state, north of the Little Colorado, consists of a high, rolling desert with almost no surface water supply.

Southern Arizona is drained by Gila and Salt Rivers. Gila River rises in western New Mexico and flows entirely across southern Arizona. It is a torrential stream, subject to heavy floods, and often entirely dry. It is little used for irrigation because of its uncertain flow. Storage of the flood waters would make it possible to irrigate large areas, and plans for such storage have been made but never carried out.

Salt River rises in east central Arizona and flows westward to its confluence with Gila River, slightly west of the center of the state. Salt River and its tributaries receive most of the drainage from the mountains of central Arizona and supply irrigation water to the Salt River Valley, which contains the largest irrigated area in the state. Like the other streams of the state, Salt River had a very variable flow until storage was provided by the construction of Roosevelt Reservoir. There is opportunity for additional storage on the tributaries.

South of Gila River there are extensive areas almost without surface water, and other valleys having drainage channels that carry water intermittently.

In some of the valleys in the southern part of the state there is a good supply of ground water, which can be made available by pumping. In the Salt River Valley irrigation has raised the ground water level so much that land has been injured. Both open drains and wells have been installed, primarily for the purpose of lowering the ground water, but affording, at the same time, an added supply of water for irrigation.

F FARMS AND ACREAGE IRRIGATED.

TABLE 2.—NUMBER OF FARMS AND ACREAGE IRRIGATED: 1890 TO 1920.

CENSUS YEAR.	FARMS IRRIGATED.			AREA IRRIGATED.				
	Num- ber.	Per cent of in- crease.	Per cent of all farms.	Acres.	Per cent of in- crease.	Per cent of total land area.	Per cent of land in farms.	Per cent of im- proved land in farms.
1920.....	6,605	36.4	66.2	467,565	46.1	0.6	8.1	65.6
1910.....	4,841	62.4	52.5	320,051	72.0	0.4	25.7	91.4
1900.....	2,981	177.3	51.3	185,396	181.7	0.3	9.6	72.8
1890.....	1,075	.....	75.4	65,821	.....	0.1	5.1	63.2

TABLE 3.—ACREAGE, CLASSIFIED BY DATE OF BEGINNING OF ENTERPRISES SUPPLYING WATER FOR IRRIGATION.

DATE OF BEGINNING.	Num- ber of enter- prises.	Area in- cluded in enter- prises, 1920 (acres).	AREA IRRIGATED IN 1919.		Area enter- prises were ca- pable of irrigating in 1920 (acres).	
			Acres.	Per cent of acre- age in enter- prises.		
			Total.....	467,565		
Before 1860.....	10	1,955	332	17.0	660	
1860-1869.....	10	2,050	720	35.1	776	
1870-1879.....	61	71,786	55,327	77.1	62,077	
1880-1889.....	85	78,516	41,358	52.7	55,332	
1890-1899.....	78	35,616	19,975	56.1	23,930	
1900-1904.....	67	21,906	10,944	49.8	11,270	
1905-1909.....	158	348,591	200,639	74.8	285,402	
1910-1914.....	220	42,994	18,692	43.5	27,738	
1915-1919.....	480	175,820	42,595	23.8	135,571	
Not reported.....	207	30,553	16,983	55.0	21,487	

TABLE 4.—ACREAGE, CLASSIFIED BY SOURCE OF WATER SUPPLY: 1919 AND 1909.

CLASS.	AREA IRRIGATED (ACRES).			Area enter- prises were ca- pable of irrigating in 1920 (acres).	Area In- cluded in enter- prises, 1920 (acres).
	1919	1909	Increase. ¹		
			Amount.		
Total.....	467,565	320,051	147,514	46.1	627,303
Streams, gravity.....	189,782	309,007	-110,285	-36.8	299,122
Streams, pumped.....	6,671	7,711	-1,040	-13.5	9,397
Wells, pumped.....	39,694	6,098	33,598	551.1	59,783
Wells, flowing.....	1,558	1,489	69	4.6	1,902
Wells, flowing and pumped.....	558	(2)	558	.....	799
Lakes, gravity.....	570	570	.....	.....	2,016
Lakes, pumped.....	5	(3)	5	.....	130
Springs.....	2,578	3,031	-1,053	-29.0	3,520
Stored storm water.....	510	487	23	4.7	600
Sewage.....	195	(2)	195	.....	200
Streams, gravity, and pumped wells.....	217,799	(2)	217,799	.....	258,104
Streams, gravity, and flowing wells.....	525	(2)	525	.....	645
Other mixed.....	7,690	(2)	7,690	.....	10,690

¹ A minus sign (—) denotes decrease.

* Not included in classification in 1910.

ACREAGE, BY CHARACTER OF ENTERPRISE.

Arizona, in common with other territory settled by the Spaniards, has many old irrigation enterprises, known as "community ditches" or "public acequias," which are operated in accordance with ancient laws and customs which have not been brought into a

definite code. These laws and customs were continued by the law of 1871, which recognized the "laws and customs of Sonora and the usage of the people of Arizona." Such enterprises are controlled by the water users and are classed as cooperative.

Arizona enacted an irrigation district law in 1912, but almost nothing has been done under that law. The state accepted the conditions of the Federal Carey Act (act of Congress, Aug. 18, 1894) in 1912, but nothing has been done under that act.

TABLE 5.—ACREAGE, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920 AND 1910.

ITEM AND CLASS.	CENSUS OF—		INCREASE. ¹	
	1920	1910	Acres.	Per cent.
ACREAGE IRRIGATED.				
Total.....	467,565	320,051	147,514	46.1
Individual and partnership.....	80,511	61,106	19,315	31.6
Cooperative.....	114,482	101,025	13,457	13.3
Irrigation district.....	300	(2)	300	.....
Commercial.....	14,500	80	14,420	.....
U. S. Reclamation Service.....	248,814	138,584	110,450	79.8
U. S. Indian Service.....	8,733	19,386	-10,653	-55.0
City.....	200	(2)	200	.....
Other and mixed.....	25	(2)	25	.....
ACREAGE ENTERPRISES WERE CAPABLE OF IRRIGATING.				
Total.....	627,303	387,655	239,648	61.8
Individual and partnership.....	195,331	81,422	113,909	139.9
Cooperative.....	130,903	120,559	10,344	8.6
Irrigation district.....	300	(2)	300	.....
Commercial.....	20,000	200	19,800	.....
U. S. Reclamation Service.....	203,691	164,500	105,191	63.9
U. S. Indian Service.....	10,833	20,974	-10,141	-48.4
City.....	220	(2)	220	.....
Other and mixed.....	25	(2)	25	.....
ACREAGE INCLUDED IN ENTERPRISES.				
Total.....	813,153	944,090	-130,937	-13.9
Individual and partnership.....	288,510	175,834	112,676	64.1
Cooperative.....	157,849	380,639	-202,790	-56.2
Irrigation district.....	450	(1)	450	.....
Commercial.....	31,000	1,600	29,400	.....
U. S. Reclamation Service.....	314,691	370,000	-55,309	-14.9
U. S. Indian Service.....	20,058	30,017	-10,959	-44.3
City.....	300	(2)	300	.....
Other and mixed.....	295	(2)	295	.....

¹ A minus sign (—) denotes decrease. Per cent not shown when base is less than 100, or when per cent is more than 1,000.

* Not included in classification in 1910.

ACREAGE, BY CHARACTER OF WATER RIGHTS.

The laws of Arizona relating to water rights are summarized in the following paragraphs:

The bill of rights of the territory of Arizona, approved October 4, 1864, contained the following declaration regarding water rights:

"All streams, lakes, and ponds of water capable of being used for purposes of navigation or irrigation are hereby declared to be public property; and no individual or corporation shall have the right to appropriate them exclusively to their own private use, except under such equitable regulations and restrictions as the legislature shall provide for that purpose."—Art. 22.

The law of 1871 declared all rivers, creeks, and streams of running water to be public and applicable to the purposes of irrigation and mining. This law provided that the appropriator should post a notice at the point of diversion and file a copy of the notice with the county recorder.

A law enacted in 1887 declared that the common law doctrine of riparian rights should not be in force in the territory, and the state constitution, adopted in 1910, contained a similar declaration (Art. 17).

IRRIGATION—ARIZONA.

In 1919 the state of Arizona adopted for the first time a comprehensive code of water laws. The code declares that "The water of all natural streams, or flowing in any canyon, ravine or other natural channel, and of springs and lakes, belongs to the public and is subject to beneficial use as herein provided." The office of state water commissioner is created; any party intending to acquire the right to use any water of the state is required to make application to the water commissioner for a permit, and upon an appropriation being perfected in accordance with a permit, the commissioner is to issue a certificate setting forth the rights acquired.

Until the enactment of the water code in 1919 there was no special procedure in the courts for hearing controversies regarding water rights. This code provides that the commissioner, on his own initiative or upon petition of one or more water users from any source, is to take testimony regarding rights to water from the source in question, examine the source of water supply and the works taking water therefrom, make findings of fact and an order defining all rights to water, and submit all testimony and his reports and findings to the superior court of the county in which reside the greatest number of the water users interested. The court reviews the whole record, and after proper hearings issues a decree defining rights. Pending the decision of the court the order of the commissioner is binding.

TABLE 6.—ACREAGE IRRIGATED, CLASSIFIED BY CHARACTER OF RIGHTS UNDER WHICH WATER IS RECEIVED: 1919 AND 1909.

CLASS.	1919		1909, per cent of total.
	Acres.	Per cent of total.	
Total.....	467,565	100.0	100.0
Appropriation and use.....	226,846	48.5	76.7
Notice filed and posted.....	97,130	20.8	14.7
Adjudicated by court.....	84,978	18.2	8.4
Permit from state.....	10	(1)	0.2
Riparian rights.....			0.2
Underground.....	41,624	8.9	(2)
Other and mixed.....	525	0.1	(2)
Not reported.....	16,452	3.5	(2)

¹ Less than one-tenth of 1 per cent.

² All land for which the class of water rights was not reported was included in "Appropriation and use."

ACREAGE, BY DRAINAGE BASIN.

The report of a special census taken in 1902 presented all data by drainage basins rather than by counties. The results of the census of 1920 have been tabulated on the same basis, and the data for 1902 are presented for purposes of comparison. For no other census have the results been tabulated in this form. The acreage reported for each drainage basin in 1919 comprises all the irrigated land in that drainage basin, including that watered from springs and wells. In the 1902 results the acreages irrigated from springs and wells were not reported for the smaller tributary streams, but the acreages for the tributaries were included in those reported for the main streams. This area is so small, however, that the comparison of the areas reported for the tributary streams is not seriously affected.

TABLE 7.—ACREAGE IRRIGATED, CLASSIFIED BY DRAINAGE BASIN: 1919 AND 1902.

DRAINAGE BASIN.	AREA IRRIGATED (ACRES).			Area included in enter- prises, 1920 (acres).	Area enter- prises were capable of irrigat- ing in 1920 (acres).
	1919	1902	Per cent of in- crease. ¹		
Total.....	467,565	247,250	80.1	813,153	627,303
Colorado River and tributaries.....	461,694	246,866	87.0	796,530	617,353
Colorado River direct.....	48,326	7,823	517.7	107,311	56,531
Kanab Wash.....	450	700	-35.7	710	610
Virgin River.....	379	820	-53.8	533	512
Williams River.....	1,653	1,256	31.6	3,232	1,809
Little Colorado River and trib- utaries.....	17,036	11,855	43.7	35,358	21,880
Little Colorado River direct.....	10,260	7,270	41.1	20,821	14,131
Nuttroso Creek.....	636	320	98.8	1,224	952
Concho Creek.....	244	163	49.7	500	250
Other tributaries of Little Colorado River.....	5,896	2,4102	43.7	12,813	6,547
Gila River and tributaries.....	391,417	223,771	74.9	643,480	533,521
Gila River direct.....	78,952	55,973	37.5	203,504	167,642
San Francisco River.....	429	289	70.5	4,148	476
San Pedro River.....	7,773	10,912	-28.8	18,059	10,861
Santa Cruz River.....	33,019	10,606	211.3	76,617	45,115
Salt River and tributaries.....	247,260	140,642	75.8	277,034	268,644
Salt River direct.....	235,825	125,007	88.6	253,603	253,308
Tonto Creek.....	502	1,829	-72.6	2,928	720
Rio Verde.....	6,564	11,502	-42.9	9,078	7,470
Other tributaries of Salt River.....	4,369	2,304	89.6	10,525	7,146
Aguia Fria River.....	18,824	884	-----	38,699	30,000
Hassayampa River.....	956	1,091	-12.4	3,657	1,773
Other tributaries of Gila River.....	6,174	2,424	80.3	20,862	9,010
Other tributaries of Colorado River.....	2,433	2,641	279.6	5,906	2,490
Whitewater Draw and tributaries	5,871	384	-----	16,623	9,950

¹ A minus sign (−) denotes decrease. Per cent not shown when more than 1,000.

² Includes springs and wells.

CAPITAL INVESTED AND COST OF OPERATION AND MAINTENANCE.

TABLE 8.—CAPITAL INVESTED IN IRRIGATION ENTERPRISES:
1890 TO 1920.

CENSUS YEAR.	Amount.	Per cent of increase.	AVERAGE PER ACRE.	
			Amount.	Percent of increase.
1920.....	\$33,498,094	89.5	\$53.40	17.1
1910.....	17,677,966	299.3	45.60	90.5
1900.....	4,438,352	884.5	23.94	238.6
1890.....	465,000	-----	7.07	-----

TABLE 9.—CAPITAL INVESTED, CLASSIFIED BY DATE OF BEGINNING.

DATE OF BEGINNING.	Amount.	Per cent of total.	Average per acre.
Total.....	\$33,498,094	100.0	\$53.40
Before 1860.....	2,058	(1)	3.12
1860-1890.....	9,770	(1)	12.59
1870-1879.....	1,881,284	5.6	30.31
1880-1889.....	921,806	2.8	16.86
1890-1899.....	645,369	1.9	26.97
1900-1904.....	437,719	1.3	35.84
1905-1909.....	20,951,574	62.5	73.40
1910-1914.....	3,778,003	11.3	136.20
1915-1919.....	4,419,044	13.2	31.89
Not reported.....	451,167	1.4	21.00

¹ Less than one-tenth of 1 per cent.

TABLE 10.—CAPITAL INVESTED, 1920, AND COST OF OPERATION AND MAINTENANCE, 1919, CLASSIFIED BY SOURCE OF WATER SUPPLY.

[When water is pumped, cost of operation and maintenance includes cost of fuel and attendance.]

CLASS.	CAPITAL INVESTED, 1920.			OPERATION AND MAINTENANCE, 1919.	
	Amount.	Per cent of total.	Average per acre.	Area for which cost is reported (acres).	Average cost per acre. ¹
Total.....	\$33,498,094	100.0	\$53.40	362,828	\$3.27
Streams, gravity.....	11,587,884	34.6	38.74	111,223	2.27
Streams, pumped.....	621,862	1.0	55.53	6,082	8.12
Streams, pumped and gravity.....					
Wells, pumped.....	3,417,339	10.2	57.16	18,733	13.15
Wells, flowing.....	115,036	0.3	60.95	734	3.64
Wells, flowing and pumped.....	54,700	0.2	68.46	558	13.64
Lakes, pumped.....	400	(2)	80.00	5	10.00
Lakes, gravity.....					
Springs.....	271,358	0.8	77.09	1,625	3.88
Stored storm water.....	11,600	(2)	19.33		
Sewage.....	68,408	0.2	317.04	90	1.89
Streams, gravity, and pumped wells.....	17,092,800	51.0	71.03	216,397	2.70
Streams, gravity, and flowing wells.....	27,500	0.1	42.64	495	2.40
Other mixed.....	333,227	1.0	31.17	6,986	4.99

¹ Based on area irrigated in 1919. ² Less than one-tenth of 1 per cent.

TABLE 11.—CAPITAL INVESTED, CLASSIFIED BY DRAINAGE BASIN: 1920 AND 1902.

DRAINAGE BASIN.	1920	1902	INCREASE. ¹	
			Amount.	Per cent.
Total.....	\$33,498,094	\$4,688,298	\$28,809,796	614.5
Colorado River and tributaries.....	33,198,726	4,681,563	28,517,163	609.1
Colorado River direct.....	7,381,891	250,973	7,190,918	
Kanab Wash.....	20,500	4,700	15,800	330.2
Virgin River.....	7,474	3,425	4,049	118.2
Williams River.....	55,504	15,636	39,868	255.0
Little Colorado River and tributaries.....	460,206	265,701	194,505	73.2
Little Colorado River direct.....	146,013	218,900	-71,987	-32.9
Nutrioso Creek.....	16,500	2,600	13,900	534.6
Concho Creek.....	49,228	850	48,378	
Other tributaries of Little Colorado River.....	247,505	* 43,351	204,214	471.1
Gila River and tributaries.....	25,165,814	4,131,850	21,033,934	509.1
Gila River direct.....	2,841,526	1,203,882	1,637,644	136.0
San Francisco River.....	15,415	13,585	1,830	13.5
San Pedro River.....	359,153	40,135	319,018	749.9
Santa Cruz River.....	5,168,524	79,686	5,088,838	
Salt River and tributaries.....	14,039,034	2,697,189	12,241,845	453.9
Salt River direct.....	14,339,874	2,404,160	11,935,714	496.5
Tonto Creek.....	9,468	15,085	-5,617	-37.2
Rio Verde.....	209,482	250,813	-41,331	-16.5
Other tributaries of Salt River.....	380,210	* 27,131	353,070	
Agua Fria River.....	1,428,077	20,998	1,407,079	
Hassayampa River.....	51,299	11,160	40,139	359.7
Other tributaries of Gila River.....	362,786	* 65,215	297,571	456.3
Other tributaries of Colorado River.....	107,337	* 9,278	98,050	
Whitewater Draw and tributaries.....	209,368	6,735	292,633	

¹ A minus sign (—) denotes decrease. Per cent not shown when more than 1,000.

² Includes springs and wells.

In classifying capital invested by type of enterprise (Table 12) the average capital invested per acre is not presented, for the reason that it is not possible to compute this correctly. The United States Reclamation Service supplies stored water to enterprises controlled by agencies of most of the other classes shown in the table and a part of its expenditure is properly chargeable to those lands; but it is not possible to tell how much should be so charged or how it should be distributed among the various classes.

TABLE 12.—CAPITAL INVESTED, 1920, AND COST OF OPERATION AND MAINTENANCE, 1919, CLASSIFIED BY CHARACTER OF ENTERPRISE.

[When water is pumped, cost of operation and maintenance includes cost of fuel and attendance.]

CLASS.	CAPITAL INVESTED, 1920.		OPERATION AND MAINTENANCE, 1919.	
	Amount.	Per cent of total.	Area for which cost is reported (acres).	Average cost per acre. ¹
Total.....	\$33,498,094	100.0	362,828	\$3.27
Individual and partnership.....	5,588,625	16.7	43,378	7.53
Cooperative.....	3,171,406	9.5	95,444	2.44
Irrigation district.....	100,080	0.3	300	0.67
Commercial.....	3,693,400	11.0	14,500	4.86
U. S. Reclamation Service.....	20,277,919	60.5	205,064	2.44
U. S. Indian Service.....	585,029	1.8	5,977	9.51
City.....	71,500	0.2	140	1.93
Not reported.....	215	(2)	25	5.00

¹ Based on area irrigated in 1919. ² Less than one-tenth of 1 per cent.

DRAINAGE OF IRRIGATED LAND.

The acreages reported in Table 13 relate to lands within the boundaries of irrigation projects; and do not include lands within the vicinity of these projects. "Additional acreage needing drainage" includes all lands so reported by the owners of the enterprises, and includes lands producing partial crops as well as those wholly unproductive.

TABLE 13.—ACREAGE WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED AND ADDITIONAL ACREAGE IN NEED OF DRAINAGE: 1920.

Number of enterprises reporting land drained or needing drainage.....	31
Acreage included in enterprises reporting land drained or needing drainage.....	382,928
Acreage for which drains have been installed.....	25,173
Additional acreage needing drainage.....	71,357
Per cent that acreage for which drains have been installed is of total acreage included in enterprises reporting drainage.....	6.6
Per cent that acreage for which drains have been installed is of total acreage included in irrigation enterprises in the state.....	3.1
Per cent that acreage for which drains have been installed plus that needing drainage is of total acreage included in irrigation enterprises in the state.....	11.9

QUANTITY OF WATER USED.

The quantity of water used in 1919 was reported on only part of the irrigation schedules, and the figures given vary greatly. In order that proper values may be assigned to the figures given, those representing measurements and those representing estimates are reported separately in Table 14. While the data are incomplete, the reports represent sufficient acreages to serve as bases for reliable averages.

TABLE 14.—QUANTITY OF WATER USED IN 1919.

ITEM.	Total.	Measured.	Not measured.
Average volume of water entering canals, second-foot.....	4,199	2,967	1,232
Area irrigated in 1919.....acres.....	336,393	258,280	78,133
Average number of acres per second-foot.....	80	87	63
Total quantity of water entering canals, acre-feet.....	1,839,680	1,402,101	437,588
Area irrigated in 1919.....acres.....	358,383	283,761	75,007
Average quantity per acre.....acre-feet.....	5.1	4.9	5.8
Total quantity of water delivered.....acre-feet.....	876,016	690,083	185,933
Area irrigated in 1919.....acres.....	291,637	233,469	58,168
Average quantity per acre.....acre-feet.....	3.0	3.0	3.2

IRRIGATION—ARIZONA.

IRRIGATION WORKS.

TABLE 15.—IRRIGATION WORKS, CLASSIFIED BY DATE OF BEGINNING.

TABLE 16.—IRRIGATION WORKS, CLASSIFIED BY CHARACTER OF ENTERPRISE: 1920

TABLE 17.—IRRIGATION WORKS, CLASSIFIED BY DRAINAGE BASIN: 1920.

DRAINAGE BASIN.	Number of diverting dams.	Number of storage dams.	MAIN DITCHES.			LATERAL DITCHES.		RESERVOIRS.	
			Number.	Capacity (second-feet).	Length (miles).	Number.	Length (miles).	Number.	Capacity (acre-feet).
Total.....	248	99	1,205	11,707	1,769	1,174	1,599	340	1,510,856
Colorado River and tributaries.....	242	48	1,120	11,154	1,648	1,082	1,592	204	1,425,785
Colorado River direct.....	2	.....	6	713	52	174	221	.....	.....
Kanab Wash.....	1	.....	1	1	.....	4	4	4	258
Virgin River.....	.....	1	10	9	9	9	2	.....	.....
Williams River.....	5	.....	37	40	34	1	1	1	4
Little Colorado River and tributaries.....	32	14	82	341	156	43	43	45	37,098
Little Colorado River direct.....	19	9	36	208	78	15	22	18	30,828
Nutrioso Creek.....	4	1	7	17	8	.....	.....	4	1,050
Concho Creek.....	.....	2	3	2	2	1	1	2	625
Other tributaries of Little Colorado River.....	9	4	37	113	68	27	20	21	4,600
Gila River and tributaries.....	199	33	950	10,032	1,385	836	1,316	210	1,377,406
Gila River direct.....	27	1	91	2,520	370	219	203	2	210
San Francisco River.....	28	1	38	22	12	.....	.....	2	.....
San Pedro River.....	30	9	114	270	162	31	15	45	894
Santa Cruz River.....	31	5	237	1,190	260	147	75	26	392
Salt River and tributaries.....	44	3	174	5,084	290	313	911	11	1,307,807
Salt River direct.....	8	1	18	4,447	111	271	898	2	1,307,300
Tonto Creek.....	9	1	34	58	26	.....	.....	1	1
Rio Verde.....	22	.....	75	359	107	29	7	5	1
Other tributaries of Salt River.....	5	1	47	220	46	13	6	3	5
Aqua Fria River.....	12	5	106	525	107	105	101	16	24
Hassayampa River.....	1	1	24	46	18	.....	.....	1	180
Other tributaries of Gila River.....	26	8	160	360	160	21	11	107	8,399
Other tributaries of Colorado River.....	3	.....	34	18	12	15	5	4	11,019
Whitewater Draw and tributaries.....	6	51	175	553	121	92	7	76	85,071

DRAINAGE BASIN.	Pipe lines, length (miles).	FLOWING WELLS.		PUMPED WELLS.		PUMPING PLANTS.				
		Number.	Capacity (gallons per minute).	Number.	Capacity (gallons per minute).	Number.	Engine capacity (horse-power).	Pumps.	Number.	Capacity (gallons per minute).
Total.....	104.5	310	14,547	999	1,042,500	744	22,014	1,001	1,048,030	44
Colorado River and tributaries.....	99.4	300	14,044	790	969,803	546	19,611	792	974,063	45
Colorado River direct.....	.....	.....	.....	3	750	7	414	10	80,200	14
Kanab Wash.....	1.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virgin River.....	.....	.....	.....	5	2,015	6	39	8	2,500	20
Williams River.....	10.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Little Colorado River and tributaries.....	.....	2	.....	2	1,000	1	1	2	1,000	30
Little Colorado River direct.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Nutrioso Creek.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Concho Creek.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other tributaries of Little Colorado River.....	.....	.....	.....	2	1,000	1	1	2	1,000	30
Gila River and tributaries.....	87.9	298	14,044	774	965,338	525	10,087	765	880,573	44
Gila River direct.....	1.0	.....	.....	78	78,531	80	2,382	84	92,581	34
San Francisco River.....	1.4	.....	.....	4	225	11	70	12	5,835	19
San Pedro River.....	5.1	133	5,195	25	11,474	27	285	29	12,949	30
Santa Cruz River.....	35.0	.....	.....	365	578,234	241	8,073	366	528,049	44
Salt River and tributaries.....	4.3	1	.....	132	150,874	75	2,053	124	153,184	68
Salt River direct.....	1.5	.....	.....	72	75,319	14	629	60	75,719	54
Tonto Creek.....	.....	.....	.....	1	500	2	25	2	1,500	16
Rio Verde.....	1.8	1	.....	3	.....	11	96	11	1,070	63
Other tributaries of Salt River.....	1.0	.....	.....	56	75,055	48	1,903	51	74,895	75
Aqua Fria River.....	34.3	1	.....	114	120,685	41	4,749	100	68,575	47
Hassayampa River.....	4.1	.....	.....	15	6,420	13	204	13	5,810	35
Other tributaries of Gila River.....	2.7	163	8,849	41	20,895	37	671	37	21,990	49
Other tributaries of Colorado River.....	0.1	.....	.....	6	700	7	70	7	700	20
Whitewater Draw and tributaries.....	5.1	10	503	200	72,787	198	2,403	209	78,967	44

IRRIGATION—ARIZONA.

CROPS.

TABLE 18.—ACREAGE, YIELD, AND VALUE OF PRINCIPAL CROPS GROWN ON IRRIGATED LAND, AND COMPARISONS WITH TOTALS FOR THE STATE: 1919 AND 1909.

[Totals for the state, used in making comparisons, are shown in state bulletin on agriculture.]

CROP.	AREA HARVESTED.					QUANTITY HARVESTED.					Per cent of increase. ¹	
	1919		1909		Per cent of increase. ¹	Unit.	1919		1909			
	Acres.	Per cent of total for state.	Acres.	Per cent of total for state.			Amount.	Per cent of total for state.	Amount.	Per cent of total for state.		
Cereals:												
1 Corn.....	8,726	39.4	7,707	50.0	10.5	Bu.	205,009	46.1	171,907	57.6	19.8	
2 Winter wheat.....	28,997	93.3	17,901	80.4	79.6	Bu.	632,332	94.5	358,175	98.7	109.0	
3 Spring wheat.....	3,250	53.7				Bu.	66,378	53.6				
4 Oats.....	4,448	37.5	5,406	92.1	-17.7	Bu.	136,227	36.1	177,057	93.5	-23.1	
5 Barley.....	19,811	91.1	32,268	98.1	-38.6	Bu.	600,752	91.5	1,001,611	99.3	-40.0	
6 Kafir and milo.....	20,316	60.4				Bu.	600,333	71.7				
Hay and forage:												
7 Alfalfa.....	97,240	58.7	65,309	98.9	48.5	Tons.	323,052	95.7	104,171	99.8	63.4	
8 Other tame grasses.....	5,117	53.8	437	20.0		Tons.	9,555	62.0	438	14.7		
9 Annual legumes cut for hay.....	792	69.7				Tons.	1,081	72.6				
10 Small grains cut for hay.....	10,517	45.5	15,266	80.1	-26.5	Tons.	14,497	48.8				
11 Wild, salt, or prairie grasses.....	1,050	12.6	1,462	15.4	-28.2	Tons.	1,096	14.0	1,756	21.5	-37.6	
12 Silage crops.....	5,634	77.7				Tons.	36,130	84.1				
13 Corn cut for forage.....	3,110	35.8	(2)			Tons.	7,461	52.0	(2)			
14 Kafir, sorghum, etc., for forage.....	12,245	42.3	(2)			Tons.	23,183	52.0	(2)			
Vegetables:												
15 Cantaloupes and muskmelons.....	3,123	94.6										
16 Watermelons.....	807	74.9										
17 Potatoes.....	1,011	40.4	1,011	87.8		Bu.	37,371	21.4	66,351	68.3	-43.7	
Miscellaneous:												
18 Clover and alfalfa seed ²	4,217	87.2	6,355	99.6	-33.6	Bu.	28,193	90.0	22,204	99.0	26.6	
19 Dry beans.....	1,295	13.7	759	33.0	70.6	Bu.	9,876	12.0	6,803	37.2	43.9	
20 Cotton.....	101,080	95.1				Bales.	56,077	95.3				
Fruits:												
21 Grapes.....	14,072	17.0	(2)			Lbs.	139,600	20.0	(2)			
22 Apples.....	30,749	43.8	(2)			Bu.	54,643	45.2	(2)			
23 Peaches.....	32,880	32.3	(2)			Bu.	49,942	36.1	(2)			
24 Oranges.....	32,196	69.0	(2)			Boxes.	48,764	61.2	(2)			
AVERAGE YIELD PER ACRE, 1919.												
CROP.	Unit.	For state.	On nonirrigated land.	On irrigated land.			1919		1909		Per cent of increase.	
				Average.	Per cent of average for state.	Per cent of average on nonirrigated land.	Amount.	Per cent of total for state.	Amount.	Per cent of total for state.		
Cereals:												
1 Corn.....	Bu.	20.1	17.7	23.9	118.9	135.0	\$401,523	46.1	\$158,903	54.1	152.5	
2 Winter wheat.....	Bu.	23.2	18.2	23.6	101.7	129.7	1,569,364	94.5	398,294	97.1	332.4	
3 Spring wheat.....	Bu.	18.7	16.7	20.4	109.1	122.2	152,639	58.6				
4 Oats.....	Bu.	31.8	32.6	30.6	96.2	93.9	156,861	36.1	127,003	97.4	23.4	
5 Barley.....	Bu.	30.2	29.0	30.3	100.3	104.5	871,000	91.5	711,251	99.5	22.5	
6 Kafir and milo.....	Bu.	25.3	18.1	30.0	118.6	165.7	914,000	71.7				
Hay and forage:												
7 Alfalfa.....	Tons.	3.08	1.16	3.33	108.1	287.1	7,914,774	95.7	1,880,244	99.1	320.9	
8 Other tame grasses.....	Tons.	1.62	1.33	1.87	115.4	140.6	181,545	62.0	5,213	12.2		
9 Annual legumes cut for hay.....	Tons.	1.31	1.18	1.36	108.8	115.3	21,620	72.6				
10 Small grains cut for hay.....	Tons.	1.28	1.20	1.39	108.6	115.8	339,740	48.8	285,166	77.4	26.7	
11 Wild, salt, or prairie grasses.....	Tons.	0.93	0.92	1.04	111.8	113.0	15,344	14.0	13,459	16.4	14.0	
12 Silage crops.....	Tons.	5.92	4.22	6.41	108.3	161.9	343,235	84.1				
13 Corn cut for forage.....	Tons.	1.65	1.23	2.43	147.3	197.6	82,071	52.0	(2)			
14 Kafir, sorghum, etc., for forage.....	Tons.	1.52	1.25	1.89	124.3	151.2	347,745	52.6	(2)			
Vegetables:												
15 Cantaloupes and muskmelons.....							428,856	02.1				
16 Watermelons.....	Bu.	69.6	91.7	37.0	53.2	40.3	80,501	73.4				
17 Potatoes.....	Bu.						93,428	21.4	74,885	76.0	24.8	
Miscellaneous:												
18 Clover and alfalfa seed ²	Bu.	6.5	5.1	6.7	103.1	131.4	592,053	90.0	156,343	99.8	278.7	
19 Dry beans.....	Bu.	8.7	8.0	7.6	87.4	85.4	46,417	12.0	14,712	32.7	215.5	
20 Cotton.....	Bales.	0.56	0.54	0.56	100.0	103.7	19,176,213	95.3				
Fruits:												
21 Grapes.....	Lbs.	8.1	7.7	9.9	122.2	128.6	8,381	20.9	(2)			
22 Apples.....	Bu.	7.17	7.17	7.18	105.9	105.9	131,143	45.2	(2)			
23 Peaches.....	Bu.	7.14	7.13	7.15	107.1	115.4	127,352	36.1	(2)			
24 Oranges.....	Boxes.	7.17	7.21	7.15	88.2	71.4	195,056	61.2	(2)			

¹ A minus sign (—) denotes decrease. Per cent not shown when more than 1,000.² Not reported separately in 1909.³ Not including red clover seed.⁴ Number of vines of bearing age.⁵ Number of trees of bearing age.⁶ Yield per vine.⁷ Yield per tree.

IRRIGATION—ARIZONA.

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COUNTY TABLE.—ACREAGE IRRIGATED, 1919 AND 1909; AND ACREAGE IN ENTERPRISES, IRRIGATION WORKS, AND CAPITAL INVESTED IN IRRIGATION ENTERPRISES, 1920 AND 1910.

[A minus sign (—) denotes decrease. Per cent not shown when base is less than 100.]

		THE STATE.	Apache.	Cochise.	Coconino.	Gila.	Graham. ¹	Greenlee. ¹
1	Number of all farms in 1920.....	9,975	337	1,251	362	289	870	262
2	Number of farms irrigated in 1919.....	6,605	181	507	50	117	533	199
3	Per cent of all farms.....	66.2	53.7	40.5	13.8	40.5	61.3	76.0
4	Number of farms irrigated in 1909.....	4,841	184	293	38	251	765	.....
5	Per cent of increase, 1909–1919.....	36.4	—1.6	73.0	.....	—53.4	.....	.....
LAND AND FARM AREA.								
6	Approximate land area.....acres.	72,883,400	7,282,560	3,948,800	11,918,720	3,007,360	2,963,200	1,201,920
7	All land in farms.....acres.	5,802,126	717,898	998,212	104,069	35,752	165,691	24,383
8	Improved land in farms.....acres.	712,803	27,452	120,220	10,827	8,009	38,032	7,990
9	Area irrigated in 1919.....acres.	467,565	12,070	12,982	1,479	1,797	32,400	6,974
10	Per cent of improved land in farms.....	65.6	44.0	10.8	7.5	20.2	83.9	87.3
11	Area irrigated in 1909.....acres.	320,051	8,853	4,900	901	2,778	38,824	.....
12	Per cent of increase, 1909–1919.....	46.1	36.3	164.9	64.2	—35.3	.....	.....
13	Area enterprises were capable of irrigating in 1920.....acres.	627,303	16,150	10,130	1,902	2,379	34,355	8,086
14	Area enterprises were capable of irrigating in 1910.....acres.	367,655	9,330	6,488	1,183	3,272	41,223	.....
15	Per cent of increase, 1910–1920.....	61.8	73.2	194.0	60.8	—27.3	.....	.....
16	Area included in enterprises in 1920.....acres.	813,153	27,571	33,099	2,040	7,012	41,938	15,288
17	Area included in enterprises in 1910.....acres.	944,090	31,807	14,141	3,223	4,233	52,143	.....
18	Per cent of increase, 1910–1920.....	—13.9	—20.8	140.4	—30.7	65.7	.....	.....
19	Area of irrigated land reported as available for settlement.....acres.	24,341	.....	2,100	.....	.....	3,407	.....
IRRIGATION WORKS.								
Independent enterprises:								
20	Number, 1920.....	1,388	39	328	21	83	100	69
21	Number, 1910.....	1,269	64	244	20	117	190	.....
Main ditches:								
22	Number, 1920.....	1,295	55	303	26	83	96	72
23	Number, 1910.....	891	67	71	20	102	124	.....
24	Length, 1920.....miles.	1,769	97	266	24	93	190	70
25	Length, 1910.....miles.	1,727	112	94	17	90	216	.....
26	Capacity, 1920.....second-feet.	11,707	249	837	49	162	883	232
27	Capacity, 1910.....second-feet.	17,200	577	349	49	453	1,075	.....
Laterals:								
28	Number, 1920.....	1,174	24	124	20	3	208	.....
29	Number, 1910.....	313	46	3	25	11	10	.....
30	Length, 1920.....miles.	1,599	27	23	11	2	181	.....
31	Length, 1910.....miles.	870	40	2	20	5	14	.....
Reservoirs:								
32	Number, 1920.....	340	36	105	4	2	56	2
33	Number, 1910.....	402	82	170	11	3	73	.....
34	Capacity, 1920.....acre-feet.	1,510,856	45,614	86,017	13	1	1,471	.....
35	Capacity, 1910.....acre-feet.	1,340,938	39,456	68	5,428	1	2,950	.....
Flowing wells:								
36	Number, 1920.....	310	.....	204	.....	.....	95	.....
37	Number, 1910.....	214	.....	90	.....	.....	117	.....
38	Capacity, 1920.....gallons per minute.	14,547	.....	9,643	.....	.....	4,054	.....
39	Capacity, 1910.....gallons per minute.	9,953	.....	2,959	.....	.....	6,799	.....
Pumped wells:								
40	Number, 1920.....	990	2	255	.....	18	4	14
41	Number, 1910.....	470	4	194	.....	10	9	.....
42	Capacity, 1920.....gallons per minute.	1,042,590	1,000	90,531	.....	5,930	1,880	3,125
43	Capacity, 1910.....gallons per minute.	765,921	65	27,185	.....	2,858	4,002	.....
Pumping plants:								
44	Number, 1920.....	744	1	241	2	19	10	21
45	Number, 1910.....	420	4	194	.....	11	19	.....
46	Engine capacity, 1920.....horsepower.	22,014	15	2,909	50	146	104	126
47	Engine capacity, 1910.....horsepower.	37,258	7	4,336	.....	43	1,248	.....
48	Pump capacity, 1920.....gallons per minute.	1,018,030	1,000	94,550	30	5,900	11,030	8,735
49	Pump capacity, 1910.....gallons per minute.	851,873	65	27,185	.....	2,908	8,517	.....
50	Average lift, 1920.....feet.	44	30	43	22	24	18	20
CAPITAL INVESTED.								
51	Capital invested to Jan. 1, 1920.....dollars.	33,498,094	275,010	611,883	72,317	59,749	945,403	75,158
52	Capital invested to July 1, 1910.....dollars.	17,677,966	234,838	513,333	42,266	38,667	335,971	.....
53	Per cent of increase, 1910–1920.....	89.5	17.1	10.2	71.1	54.5	.....	.....
54	Average cost per acre based on area enterprises were capable of supplying with water in 1920.....dollars.	53.40	17.02	31.99	38.02	25.12	27.52	9.29
55	Average cost per acre based on area enterprises were capable of supplying with water in 1910.....dollars.	45.60	25.17	79.12	35.73	11.82	8.15	.....
ESTIMATED FINAL COST.								
56	Estimated final cost of existing enterprises in 1920.....dollars.	34,615,004	283,240	635,248	72,317	60,749	905,803	77,758
57	Estimated final cost of existing enterprises in 1910.....dollars.	24,828,868	384,838	513,333	42,266	38,667	346,721	.....
58	Per cent of increase, 1910–1920.....	30.4	—25.4	23.7	71.1	57.1	.....	.....
59	Average cost per acre based on estimated final cost and area included in enterprises in 1920.....dollars.	42.57	10.27	18.08	35.45	8.66	23.74	5.09
60	Average cost per acre based on estimated final cost and area included in enterprises in 1910.....dollars.	26.30	11.06	36.30	13.11	9.13	6.65	.....

¹Part of Graham County taken to form Greenlee County in 1911.

IRRIGATION—ARIZONA.

COUNTY TABLE.—ACREAGE IRRIGATED, 1919 AND 1909; AND ACREAGE IN ENTERPRISES, IRRIGATION WORKS, AND CAPITAL INVESTED IN IRRIGATION ENTERPRISES, 1920 AND 1910—Continued.

[A minus sign (−) denotes decrease. Per cent not shown when base is less than 100.]

		Maricopa.	Mohave.	Navajo.	Pima.	Pinal.	Santa Cruz.	Yavapai.	Yuma.
1	Number of all farms in 1920.....	3,930	130	341	434	293	248	598	630
2	Number of farms irrigated in 1919.....	3,334	69	183	228	213	63	329	559
3	Per cent of all farms.....	86.1	45.4	53.7	52.5	72.7	25.4	55.0	88.7
4	Number of farms irrigated in 1909.....	1,726	44	181	188	570	75	297	229
5	Per cent of increase, 1909–1919.....	66.1		1.1	21.3	−62.6		10.8	144.1
	LAND AND FARM AREA.								
6	Approximate land area.....acres.	5,690,240	8,569,600	6,335,360	6,083,200	3,443,200	786,560	5,216,000	6,391,680
7	All land in farms.....acres.	802,396	31,022	1,213,620	413,278	152,643	150,593	874,490	57,440
8	Improved land in farms.....acres.	279,334	6,317	23,753	35,785	41,876	24,929	36,811	40,959
9	Area irrigated in 1919.....acres.	282,130	2,342	5,832	16,883	28,647	2,608	11,566	49,855
10	Per cent of improved land in farms.....	101.0	37.1	24.6	47.2	68.4	10.5	31.4	121.7
11	Area irrigated in 1909.....acres.	100,052	1,688	6,458	10,160	25,481	4,773	8,571	7,662
12	Per cent of increase, 1909–1919.....	41.7	38.7	−8.7	68.2	12.6	−45.4	34.9	550.7
13	Area enterprises were capable of irrigating in 1920.....acres.	304,500	2,072	6,596	25,443	34,706	3,413	13,382	64,481
14	Area enterprises were capable of irrigating in 1910.....acres.	236,061	8,720	8,276	11,876	31,100	4,895	9,538	16,687
15	Per cent of increase, 1910–1920.....	67.2	−69.4	−20.3	114.2	11.6	−30.3	40.3	311.0
16	Area included in enterprises in 1920.....acres.	409,967	8,395	11,956	40,978	65,790	7,162	17,108	128,940
17	Area included in enterprises in 1910.....acres.	455,361	40,624	24,997	24,484	89,400	6,872	16,588	177,217
18	Per cent of increase, 1910–1920.....	−10.0	−81.6	−52.2	67.4	−26.4	4.2	3.1	−27.2
19	Area of irrigated land reported as available for settlement.....acres.	5,080			5,134	7,720			
	IRRIGATION WORKS.								
	Independent enterprises:								
20	Number, 1920.....	105	63	18	125	167	19	224	27
21	Number, 1910.....	88	57	17	110	77	66	196	23
	Main ditches:								
22	Number, 1920.....	85	58	28	107	175	20	169	18
23	Number, 1910.....	64	57	28	53	67	45	176	17
24	Length, 1920.....miles.	305	34	59	129	229	28	159	86
25	Length, 1910.....miles.	433	61	87	70	170	64	211	93
26	Capacity, 1920.....second-feet.	6,371	46	94	449	940	102	492	801
27	Capacity, 1910.....second-feet.	7,468	333	98	698	2,353	170	752	2,822
	Laterals:								
28	Number, 1920.....	352	14	14	134	16		66	199
29	Number, 1910.....	29	46	50	9	36	12	24	12
30	Length, 1920.....miles.	1,019	2	14	61	15		11	233
31	Length, 1910.....miles.	525	7	40	4	57	12	9	135
	Reservoirs:								
32	Number, 1920.....	5	5	8	18	9	6	23	1
33	Number, 1910.....	17	9	11	27	5	10	31	3
34	Capacity, 1920.....acre-feet.	1,367,305	333	2,410	360	57	51	7,200	10
35	Capacity, 1910.....acre-feet.	1,284,013	3,124	3,428	135	9,961	135	1,235	4
	Flowing wells:								
36	Number, 1920.....			2	6	1		2	
37	Number, 1910.....			1		350	500	6	
38	Capacity, 1920.....gallons per minute.								
39	Capacity, 1910.....gallons per minute.			20				175	
	Pumped wells:								
40	Number, 1920.....	238	11	1	248	136	16	26	30
41	Number, 1910.....	95	3	1	68	25	21	25	15
42	Capacity, 1920.....gallons per minute.	288,339	1,515		456,766	140,090	15,600	5,460	23,845
43	Capacity, 1910.....gallons per minute.	617,790	2,170	700	38,829	48,875	17,242	3,047	3,158
	Pumping plants:								
44	Number, 1920.....	95	11	1	136	124	14	36	33
45	Number, 1910.....	55	6	2	62	21	20	21	14
46	Engine capacity, 1920.....horsepower.	7,945	90		3,900	4,940	343	191	1,165
47	Engine capacity, 1910.....horsepower.	26,781	112	25	769	779	345	70	2,743
48	Pump capacity, 1920.....gallons per minute.	243,334	1,790		408,581	148,924	15,200	6,005	102,945
49	Pump capacity, 1910.....gallons per minute.	617,790	10,224	2,020	39,243	48,875	17,242	4,071	73,733
50	Average lift, 1920.....feet.	72	20		38	48	25	37	29
	CAPITAL INVESTED.								
51	Capital invested to Jan. 1, 1920.....dollars.	17,491,021	86,612	246,783	4,549,400	691,345	116,050	523,638	7,553,725
52	Capital invested to July 1, 1910.....dollars.	10,739,817	85,948	258,803	427,077	631,934	58,051	219,770	4,071,491
53	Per cent of increase, 1910–1920.....	62.6	0.8	−4.6	965.2	41.1	99.9	138.3	85.5
54	Average cost per acre based on area enterprises were capable of supplying with water in 1920.....dollars.	44.33	32.41	37.41	178.81	25.68	34.00	39.13	117.15
55	Average cost per acre based on area enterprises were capable of supplying with water in 1910.....dollars.	45.58	9.85	31.27	35.56	20.32	11.86	23.04	259.55
	ESTIMATED FINAL COST.								
56	Estimated final cost of existing enterprises in 1920.....dollars.	17,517,921	88,112	264,283	4,595,575	893,345	110,050	655,888	8,355,775
57	Estimated final cost of existing enterprises in 1910.....dollars.	13,418,557	320,248	299,015	427,077	631,934	58,051	224,770	8,122,491
58	Per cent of increase, 1910–1920.....	30.5	−72.5	−11.9	976.1	41.4	105.1	191.8	2.9
59	Average cost per acre based on estimated final cost and area included in enterprises in 1920.....dollars.	42.73	25.95	22.10	112.15	13.58	16.62	38.34	64.80
60	Average cost per acre based on estimated final cost and area included in enterprises in 1910.....dollars.	29.47	7.88	12.00	17.44	7.07	8.45	13.55	45.83

MANUFACTURES—ARIZONA.

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this section give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in com-

parison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

MANUFACTURES—ARIZONA.

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except

as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal-revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture. The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured—and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

GENERAL STATISTICS.

General character of the state.—Arizona has a gross area of 113,956 square miles, of which 113,810 represent land surface. The inhabitants of the state in 1900 numbered 122,931; in 1910, 204,354; and in 1920, 334,162. Both in total population and in density of population Arizona ranked forty-fifth among the states in 1920. The number of inhabitants per square mile in 1910 was 1.8, the corresponding figure for 1920 being 2.9.

There were in the state in 1920 only two cities having more than 10,000 inhabitants—Phoenix and Tucson. These cities, with a combined population of 49,345, or 14.8 per cent of the total for Arizona, reported 9.9 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—The large increases in wages, cost of materials, and value of products, as presented in Table 1, were chiefly due to the change in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. However, the increases in average number of wage earners and horsepower are significant evidences of the growth of the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the large increase in "Rent and taxes." The percentage of increase in the cost of materials (135.8) as compared with that for value of products (88.4) resulted in a small increase (13.4) in value added by manufacture. This condition was due to the copper smelting and refining industry, which in 1919 contributed more than two-thirds of the total value of products for the state. Between the time of purchase of the materials used and the turning out of the products the market value of copper had greatly decreased, necessarily affecting the normal business conditions pertaining to the disposition of the products.

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for other censuses with those for 1919. The statistics for this census, however, show that of the 14 counties in the state, 4—Cochise, Gila, Maricopa, and Yavapai—reported 84.8 per cent of the total value of products and 59.9 per cent of the average number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their true importance from a manufacturing standpoint. Their rank-

ing might change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 23.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 90 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—This table shows the rapid growth of manufactures in the cities between the industrial censuses 1914 and 1919. Measured by wage earners, there was a gain of 93 per cent in Phoenix and 98.1 per cent in Tucson, while if measured by the value of products the increase was 221.7 per cent in Phoenix and 167 per cent in Tucson.

Wage earners, by months (Table 7).—The statistics for wage earners are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined and for the two cities. Except in the manufacture of confectionery and pickles and sauces there was no industry in the state in which the number of female wage earners predominated.

Prevailing hours of labor (Table 9).—The figures presented in this table show a decided shortening of the working day since the census of 1914. In that year 12.7 per cent of the wage earners were included in the group "48 and under," as against 34.7 per cent in 1919. On the other hand, in 1914 the "60" and "over 60" groups constituted 29.7 per cent of the total wage earners, as compared with 16.6 per cent in 1919.

MANUFACTURES—ARIZONA.

Size of establishments, by average number of wage earners, for selected industries (Table 10).—The predominance of the number of small establishments, based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 72.5 per cent were in the classes having fewer than 6 wage earners, while such establishments employed but 7.7 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at \$100,000 to \$1,000,000 constituted one group, but at the census of 1919 this group was subdivided into “\$100,000 to \$500,000” and “\$500,000 to \$1,000,000.” Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group with those of another group, to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for Phoenix and Tucson (Table 13).—This table shows that in Arizona all establishments with products valued at “\$1,000,000 and over” were located outside the corporate limits of Phoenix and Tucson in 1919.

Character of ownership (Table 14).—It will be noted that while the number of establishments under cor-

porate ownership formed 37.9 per cent of the total in 1914 and only 33.5 per cent in 1919, this group shows an increase of 21.6 per cent in the number of wage earners and 86.8 per cent in value of products during the five-year period.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that relatively the manufactures in Phoenix and Tucson were not of great importance as to value of products, the two cities combined reporting but 9.9 per cent of the total for the state in 1919 and 6.1 per cent in 1914. Their proportion of wage earners was greater, however, being 23.5 per cent in 1919 and 14.8 per cent in 1914.

Number and horsepower of types of prime movers (Table 16).—Although both the owned and rented power increased from census to census, the proportionate increase in rented (electric) power was the greater, being 161 per cent, as compared with 75.1 per cent for owned power, for the five-year period 1914–1919.

Fuel consumed (Table 17).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914 and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. The importance of the smelting and refining of copper industry in the state as a consumer of fuel will be realized from the fact that of the total fuel consumed by all industries in the state in 1919, this industry reported 83 per cent of the fuel oils, 99.1 per cent of the coke, and 42.4 per cent of the bituminous coal.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE, ¹			
	1919	1914	1909	1904	1899	1914–1919	1909–1914	1904–1909	1899–1904
Number of establishments.....	480	322	311	169	154	49.1	3.5	84.0	9.7
Persons engaged.....	10,347	8,014	7,202	5,217	(*)	29.1	11.3	38.0	.....
Proprietors and firm members.....	416	267	261	133	(*)	55.8	2.3	96.2	.....
Salaried employees.....	1,403	849	500	291	205	65.3	69.8	71.8	42.0
Wage earners (average number).....	8,528	6,898	6,441	4,703	3,126	23.6	7.1	34.4	53.3
Primary horsepower.....	103,958	54,697	39,140	21,412	8,537	90.1	39.7	82.8	150.8
Capital.....	\$101,488,070	\$40,800,365	\$32,872,935	\$14,385,654	\$9,517,573	151.8	22.6	128.4	51.2
Salaries and wages.....	15,126,607	7,646,749	6,303,324	4,440,796	2,556,656	97.8	21.3	41.9	73.7
Salaries.....	3,111,838	1,417,876	798,141	471,548	269,304	119.5	77.6	69.3	75.1
Wages.....	12,014,769	6,228,873	5,505,183	3,969,248	2,287,352	92.9	13.1	38.7	73.5
Paid for contract work.....	153,153	174,830	18,796	179,124	(*)	-12.4	830.1	-89.5	.....
Rent and taxes.....	1,786,447	518,426	273,184	153,013	(*)	244.6	89.8	.....	.....
Cost of materials.....	92,645,437	39,283,038	33,600,240	14,595,057	7,876,542	135.8	16.9	130.2	85.3
Value of products.....	120,769,112	62,089,510	50,250,694	25,033,192	20,438,987	88.4	27.5	79.0	37.4
Value added by manufacture ²	28,123,675	24,806,472	10,656,454	13,488,135	12,562,445	13.4	48.9	23.5	7.4

¹ A minus sign (–) denotes decrease.
² Figures not available.

³ Exclusive of internal revenue.
⁴ Value of products less cost of materials.

MANUFACTURES—ARIZONA.

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TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establish- ments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse- power.
		Average number.	Wages.					
The state.....	480	8,528	\$12,014,769	\$1,788,447	\$92,045,437	\$120,769,112	\$28,123,675	103,958
Apache.....	9	32	36,738	759	30,554	111,350	74,796	387
Cochise.....	49	1,772	2,395,403	700,528	24,269,598	31,758,805	7,480,207	41,409
Coconino.....	25	1,003	1,216,099	55,007	918,994	2,738,919	1,819,925	3,598
Gila.....	34	989	1,599,846	230,729	39,681,225	42,811,294	3,180,069	18,633
Graham.....	14	35	48,274	7,251	340,568	474,192	133,624	244
Greenlee.....	15	332	404,403	92,298	7,343,363	8,247,903	904,540	11,299
Maricopa.....	162	1,359	1,697,899	200,443	7,665,100	12,149,724	4,484,624	5,119
Mohave.....	12	17	24,262	4,063	39,772	92,707	52,095	157
Navajo.....	15	409	689,525	8,989	344,900	1,155,605	810,705	993
Pima.....	45	1,166	1,572,237	46,013	1,825,190	3,822,639	1,097,449	1,795
Pinal.....	22	29	36,708	6,818	84,794	170,680	94,886	203
Santa Cruz.....	18	109	107,109	20,238	150,602	354,277	203,675	359
Yavapai.....	38	990	1,703,317	387,225	9,420,201	15,648,048	6,228,447	18,194
Yuma.....	22	286	392,794	25,186	574,576	1,223,309	648,733	1,568

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establish- ments.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of establish- ments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANU- FACTURE.		
		Average number.	Per cent dis- tribution.	Amount (expressed in thousands).	Percent dis- tribution.			Average number.	Per cent dis- tribution.	Amount (expressed in thousands).	Percent dis- tribution.			
All industries.....	480	8,528	100.0	\$120,709	100.0	\$28,124	100.0	Butter.....	6	68	0.8	\$1,148	1.0	\$222 0.8
Smelting and refining, copper.....	10	3,112	36.5	94,184	78.0	15,515	55.2	Automobile repairing.....	81	231	2.7	1,013	0.8	646 2.3
Cars and general shop construction and repairs by steam-railroad companies.....	17	2,103	24.7	5,398	4.5	3,496	12.4	Gas, illuminating and heating.....	9	63	0.7	691	0.5	341 1.2
Flour-mill and gristmill products.....	12	72	0.8	2,392	2.0	425	1.5	Confectionery and ice cream.....	19	82	1.0	515	0.4	181 0.6
Lumber and timber products.....	18	972	11.4	2,315	1.9	1,687	6.0	Copper, tin, and sheet-iron work.....	18	51	0.6	437	0.4	181 0.6
Bread and other bakery products.....	62	209	2.5	1,839	1.5	582	2.1	Printing and publishing, book and job.....	15	95	1.1	372	0.3	209 1.6
Printing and publishing, newspapers and periodicals.....	69	417	4.9	1,715	1.4	1,342	4.8	Lumber, planing-mill products, not including planing mills connected with sawmills.....	8	67	0.8	304	0.3	148 0.5
Oil and cake, cottonseed.....	3	90	1.1	1,670	1.4	552	2.0	Mineral and carbonated waters.....	26	51	0.6	322	0.3	167 0.6
Ice, manufactured.....	31	272	3.2	1,410	1.2	798	2.8	All other industries.....	74	516	6.0	3,578	3.0	1,346 4.8
Slaughtering and meat packing.....	4	57	0.7	1,406	1.2	226	0.8							

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.							
All classes.....	1919	10,347	10,004	343	96.7	3.3	Clerks and other subordinate salaried employees.....	1919	950	773	177	81.4	18.6
	1914	8,014	7,881	133	98.3	1.7		1914	585	520	65	88.9	11.1
	1909	7,202	7,119	83	98.8	1.2		1909	334	299	35	89.5	10.5
Proprietors and officials.....	1919	869	843	26	97.0	3.0	Wage earners (average number).....	1919	8,528	8,388	140	98.4	1.6
	1914	531	515	16	97.0	3.0		1914	6,898	6,846	52	99.2	0.8
	1909	427	417	10	97.7	2.3		1909	6,441	6,403	38	99.4	0.6
Proprietors and firm members....	1919	416	398	18	95.7	4.3	16 years of age and over.....	1919	8,499	8,360	139	98.4	1.6
	1914	267	255	12	95.5	4.5		1914	6,885	6,835	50	99.3	0.7
	1909	261	253	8	96.9	3.1		1909	6,404	6,366	38	99.4	0.6
Salaried officers of corporations....	1919	134	130	4	97.0	3.0	Under 16 years of age.....	1919	29	28	1	98.6	3.4
	1914	100	98	2	98.0	2.0		1914	13	11	2	84.6	15.4
	1909	51	50	1	98.0	2.0		1909	37	37	1	100.0	0.0
Superintendents and managers....	1919	319	315	4	98.7	1.3							
	1914	164	162	1	98.8	1.2							
	1909	115	114	1	99.1	0.9							

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TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Cen-sus year.	Wage earners (aver-age number).	PER CENT OF TOTAL.			INDUSTRY.	Cen-sus year.	Wage earners (aver-age number).	PER CENT OF TOTAL.		
			16 years of age and over.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
All industries.....	1919	8,528	98.0	1.6	0.3	Lumber and timber products.....	1919	972	100.0	.....	.....
	1914	6,898	98.1	0.7	0.2		1914	1,110	99.8	.....	0.2
	1909	6,441	98.8	0.6	0.6	Oil and cake, cottonseed ²	1919	90	100.0	.....	.....
Automobile repairing.....	1919	231	100.0	.....	.....	Printing and publishing, book and job.....	1919	95	81.1	17.9	1.0
	1914	20	100.0	.....	.....		1914	69	82.6	15.9	1.4
Bread and other bakery products.....	1919	209	84.7	13.9	1.4	Printing and publishing, newspapers and periodicals.....	1919	417	89.7	5.8	4.6
	1914	148	97.3	1.4	1.4		1914	266	89.5	7.9	2.6
Brick and terra-cotta products.....	1919	99	100.0	.....	.....	Smelting and refining, copper.....	1919	3,112	99.7	0.3	.....
	1914	96	100.0	.....	.....		1914	2,908	100.0	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	1919	2,103	99.9	0.1	.....	All other industries.....	1919	831	92.4	6.9	0.7
	1914	1,377	100.0	.....	.....		1914	620	97.4	2.6	.....
Foundry and machine-shop products ¹	1919	97	100.0	.....	.....	.....	.....	.....	.....	.....	.....
	1914	83	100.0	.....	.....	.....	.....	.....	.....	.....	.....
Ice, manufactured.....	1919	272	100.0	.....	.....	.....	.....	.....	.....	.....	.....
	1914	203	99.5	.....	0.5	.....	.....	.....	.....	.....	.....

¹ Includes "iron and steel, welding."² Not shown separately in 1914.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

		PHOENIX.			TUCSON.		
		1919	1914	1909	1919	1914	1909
Wage earners (average number).....		861	446	304	1,141	576	555
16 years of age and over.....		859	446	297	1,127	573	554
Male.....		707	425	290	1,117	567	546
Female.....		62	21	7	10	6	8
Under 16 years of age.....		2	.....	7	14	3	1
Value of products.....		\$8,140,679	\$2,530,174	\$1,467,142	\$3,756,314	\$1,406,818	\$2,036,620

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.			MONTH.	NUMBER. ¹			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	8,872	7,079	6,003	99.2	90.9	88.5	July.....	8,742	7,715	6,888	97.7	99.2	100.0
February.....	8,416	6,915	6,024	94.1	89.0	87.5	August.....	8,902	7,076	6,845	99.5	91.0	99.4
March.....	7,911	7,053	6,003	88.4	90.7	87.2	September.....	8,837	6,262	6,040	98.8	80.6	96.4
April.....	7,931	7,432	6,048	88.7	95.6	87.8	October.....	8,945	5,847	6,634	100.0	75.2	96.3
May.....	8,217	7,678	6,439	91.9	98.8	93.5	November.....	8,772	5,916	6,452	98.1	76.1	93.7
June.....	8,208	7,774	6,869	91.8	100.0	99.7	December.....	8,583	6,020	6,360	96.0	77.6	92.3

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

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TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

[The month of maximum employment for each industry is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	Februa-	March.	April.	May.	June.	July.	August.	Septem-	Octo-	Novem-	Decem-	
All industries.....	8,528	8,872	8,416	<i>7,911</i>	7,931	8,217	8,208	8,742	8,902	8,837	8,945	8,772	8,583	88.4
Males.....	8,388	8,707	8,285	<i>7,770</i>	7,804	8,001	8,055	8,628	8,783	8,710	8,804	8,584	8,399	88.3
Females.....	140	165	131	135	127	126	123	114	119	127	141	127	184	60.6
Automobile repairing.....	231	214	<i>211</i>	211	217	225	226	224	234	244	247	250	249	78.4
Bread and other bakery products.....	209	<i>200</i>	201	208	204	210	204	204	203	207	224	228	215	87.7
Brick and terra-cotta products.....	99	<i>55</i>	58	88	101	102	106	149	137	146	134	91	41	23.5
Cars and general shop construction and repairs by steam-railroad companies.....	2,103	2,023	2,117	2,196	2,134	2,141	2,040	2,116	2,089	2,050	2,041	2,096	2,184	92.1
Foundry and machine-shop products.....	92	99	98	94	88	84	92	92	92	93	90	90	92	84.8
Ice, manufactured.....	272	<i>184</i>	185	216	257	307	344	365	361	355	276	212	202	50.4
Lumber and timber products.....	972	743	608	<i>568</i>	754	1,116	1,138	1,186	1,205	1,122	1,150	1,094	982	47.1
Oil and cake, cottonseed.....	90	141	137	98	46	25	48	31	46	68	149	146	145	16.8
Printing and publishing, book and job.....	95	98	98	98	96	94	93	90	92	93	97	97	94	91.8
Printing and publishing, newspapers and periodicals.....	417	<i>397</i>	403	401	402	412	411	424	416	420	431	435	452	87.8
Smelting and refining, copper.....	3,112	3,914	3,501	2,886	2,704	<i>2,602</i>	2,697	3,021	3,162	3,218	3,287	3,178	3,054	68.0
All other industries.....	830	824	799	847	868	539	811	840	805	812	819	855	853	92.1
Total for cities.....	2,002	1,912	1,910	1,977	1,945	1,984	1,963	1,976	1,986	2,004	2,089	2,123	2,146	89.1
Males.....	1,930	<i>1,828</i>	1,853	1,911	1,879	1,922	1,902	1,919	1,928	1,945	2,019	2,011	2,043	89.5
Females.....	72	84	66	66	66	62	61	57	58	59	70	112	103	50.9
PHOENIX.....	861	850	821	838	800	808	827	813	821	836	935	977	997	80.2
Males.....	799	<i>785</i>	765	782	745	757	777	766	773	788	874	875	903	82.5
Females.....	92	74	55	56	55	51	50	47	48	50	61	102	94	46.1
TUCSON.....	1,141	1,053	1,098	1,130	1,145	1,176	1,136	1,163	1,165	1,168	1,154	1,146	1,149	89.5
Males.....	1,131	<i>1,043</i>	1,088	1,129	1,134	1,165	1,125	1,153	1,155	1,159	1,145	1,136	1,140	89.5
Females.....	10	10	10	10	11	11	11	10	10	9	9	10	9	81.8

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—								
			44 and under.	Between 44 and 48.	48. ¹	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.	
All industries.....	1919	8,528	57	57	2,842	976	285	2,807	1,049	365	
	1914	6,898	(2)	(2)	873	53	880	3,046	1,367	679	
	1900	6,441	(2)	(2)	579	95	739	3,411	1,155	422	
Automobile repairing.....	1919	231			107	3	90	23	5	3	
	1914	20	(2)	(2)	2	16			2		
Bread and other bakery products.....	1919	209			102	48	24	23	8	4	
	1914	148	(2)	(2)	22	1	12	25	66	22	
Brick and terra-cotta products.....	1919	99	14	(2)	39		46		5	65	
	1914	96	(2)	(2)	26						
Cars and general shop construction and repairs by steam-railroad companies.....	1919	2,103			1,482			621		360	
	1914	1,377	(2)	(2)	268		749				
Foundry and machine-shop products ²	1919	97			87	5	5		1		
	1914	83	(2)	(2)	35	15	32				
Ice, manufactured.....	1919	272			35			101	11	125	
	1914	203						41	3	159	
Lumber and timber products.....	1919	972			7		34		931		
	1914	1,110	(2)	(2)	10				1,100		
Oil and cake, cottonseed ⁴	1919	90			25					65	
Printing and publishing, book and job.....	1919	95			95						
	1914	69	(2)	(2)	67		2				
Printing and publishing, newspapers and periodicals.....	1919	417			359		1				
	1914	266	(2)	(2)	255		10	1			
Smelting and refining, copper.....	1919	3,112			193	890		2,029			
	1914	2,906						2,006			
All other industries.....	1919	881	48	(2)	311	30	85	100	94	168	
	1914	620	(2)	(2)	188	21	75	68	130	138	
Total for cities.....	1919	2,002	50	57	1,466	57	121	59	47	145	
	1914	1,022	(2)	(2)	290	52	433	51	68	123	
PHOENIX.....	1919	861	31	(2)	489	57	92	42	35	115	
	1914	446	(2)	(2)	190	37	42	20	50	98	
TUCSON.....	1919	1,141	19	57	977	15	396	17	12	30	
	1914	576	(2)	(2)	100		31	9	9	25	

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

³ Includes "iron and steel, welding."

⁴ Not shown separately in 1914.

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TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—														
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.			
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.		
All industries.....	480	8,528	57	291	600	80	834	27	846	6	383	10	1,630	7	2,427	2	1,730
Automobile repairing.....	81	231	4	67	152	10	79	1	28								
Bread and other bakery products.....	62	209	10	44	104	7	76										
Brick and terra-cotta products.....	13	99	2	5	12	6	87										
Cars and general shop construction and repairs by steam-railroad companies.....	17	2,103				5	45	5	166	1	68	4	644	1	330	1	850
Foundry and machine-shop products.....	10	92		5	13	4	53	1	27								
Ice, manufactured.....	31	272	1	18	41	8	83	3	90	1	58						
Lumber and timber products.....	13	972		12	25			1	22	1	53	2	298	2	574		
Oil and cake, cottonseed.....	3	90						3	90								
Printing and publishing, book and job.....	15	95	2	9	21	3	34	1	40								
Printing and publishing, newspapers and periodicals.....	69	417	20	33	71	12	112	2	70	1	57	1	107				
Smelting and refining, copper.....	10	3,112						1	47	1	63	3	500	4	1,523	1	880
All other industries.....	151	836	18	98	221	25	206	9	265	1	84						
Total for cities.....	147	2,002	19	77	184	32	331	16	473	1	57	1	107			1	850
PHOENIX.....	110	861	17	58	135	21	222	13	397	1	107						
TUCSON.....	37	1,141	2	19	49	11	109	3	70	1	57					1	850

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1900	1919	1914	1909	1919	1914	1909	1919	1914	1909
	1919	1914	1900	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	480	322	311	8,528	6,898	6,441	\$120,769,112	\$64,089,510	\$50,250,694	\$28,123,675	\$24,806,472	\$10,050,454
Less than \$5,000.....	110	102	117	80	109	120	303,604	264,684	273,045	202,728	181,199	180,124
\$5,000 to \$20,000.....	187	121	113	463	390	309	2,032,527	1,263,431	1,139,895	1,201,271	764,498	689,082
\$20,000 to \$100,000.....	126	63	55	1,003	721	675	5,348,365	2,378,433	2,519,424	2,796,683	1,472,012	1,424,581
\$100,000 to \$500,000.....	37	24	{ 1,874 }	9,030	993	9,030,993	4,838,846	4,047,429	{ 4,164,578 }	3,429,535	2,099,212	
\$500,000 to \$1,000,000.....	8	4	{ 1,062 }	2,896	1,712	{ 5,649,768 }	2,347,233	4,047,429	{ 2,433,988 }	18,959,228	12,256,555	
\$1,000,000 and over.....	12	8	9	4,046	2,782	3,556	98,403,855	52,990,883	42,276,901	17,324,429	18,959,228	12,256,555
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	22.9	31.7	37.6	0.9	1.6	2.0	0.2	0.4	0.5	0.7	0.7	1.1
\$5,000 to \$20,000.....	39.0	37.6	36.3	5.4	5.7	5.7	1.7	2.0	2.3	4.3	3.1	4.1
\$20,000 to \$100,000.....	26.2	19.6	17.7	11.8	10.5	10.5	4.4	3.7	5.0	9.9	5.9	8.6
\$100,000 to \$500,000.....	7.7	7.5	{ 5.5 }	22.0	26.6	{ 7.5 }	7.5	7.5	8.1	{ 14.8 }	13.8	12.6
\$500,000 to \$1,000,000.....	1.7	1.2	{ 1.2 }	12.5	42.0	{ 4.7 }	3.7	3.7	8.1	{ 8.7 }	61.6	73.6
\$1,000,000 and over.....	2.5	2.5	2.9	47.4	40.3	55.2	81.5	82.7	84.1	76.4		

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TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
			Percent distribution.				Percent distribution.				Percent distribution.				Percent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
AUTOMOBILE REPAIRING.....	81	3	100.0	100.0	231	20	100.0	100.0	\$1,013,243	\$32,691	100.0	100.0	\$646,134	\$29,187	100.0	100.0
Less than \$5,000.....	22	10	27.2	.....	20	8	8.7	.....	67,561	6.7	.....	.....	46,703	7.2	.....	.....
\$5,000 to \$20,000.....	42	13	51.9	100.0	108	120	45.9	100.0	434,237	132,691	42.8	100.0	301,180	129,187	46.6	100.0
\$20,000 to \$100,000.....	17	.....	21.0	.....	105	.....	45.4	.....	511,445	50.5	.....	.....	208,251	.....	46.2	.....
BREAD AND OTHER BAKERY PRODUCTS.....	62	46	100.0	100.0	209	148	100.0	100.0	1,839,447	662,691	100.0	100.0	581,605	296,843	100.0	100.0
Less than \$5,000.....	11	10	17.7	21.7	8	8	3.8	4.1	29,102	30,060	1.6	4.5	10,176	13,250	1.7	4.5
\$5,000 to \$20,000.....	25	28	40.3	60.9	39	73	18.7	49.3	311,359	319,792	16.9	48.3	108,508	134,039	18.7	45.2
\$20,000 to \$100,000.....	22	8	35.5	17.4	94	60	45.0	46.6	884,993	2,312,839	48.1	47.2	273,051	2,149,554	46.9	50.4
\$100,000 to \$500,000.....	4	.....	6.5	.....	68	.....	82.5	.....	613,993	33.4	.....	.....	189,870	.....	32.6	.....
FLOUR-MILL AND GRISTMILL PRODUCTS.....	12	8	100.0	100.0	72	38	100.0	100.0	2,392,089	1,064,096	100.0	100.0	425,170	215,005	100.0	100.0
Less than \$20,000.....	4	.....	33.3	.....	1	5	1.4	.....	31,344	1.3	.....	.....	8,391	.....	2.0	.....
\$20,000 to \$100,000.....	3	3	25.0	37.5	3	33	4.2	13.2	131,821	855,460	5.5	5.2	31,840	10,139	7.5	4.7
\$100,000 and over.....	5	5	41.7	62.5	68	94	4.4	86.8	2,228,924	1,009,536	93.2	94.8	384,939	204,866	90.5	95.3
ICE, MANUFACTURED.....	31	27	100.0	100.0	272	203	100.0	100.0	1,410,148	807,278	100.0	100.0	797,910	535,921	100.0	100.0
Less than \$5,000.....	5	3	16.1	11.1	3	4	1.1	2.0	15,335	11,492	1.1	1.4	10,670	7,774	1.3	1.5
\$5,000 to \$20,000.....	9	10	29.0	37.0	19	29	7.0	14.3	98,300	114,259	7.0	14.2	51,656	72,319	6.5	13.5
\$20,000 to \$100,000.....	13	14	41.9	51.9	111	170	40.8	83.7	623,100	2,681,527	44.2	84.4	380,427	2,455,828	47.7	83.1
\$100,000 to \$500,000.....	4	.....	12.9	.....	139	.....	51.1	.....	673,328	47.7	.....	.....	355,148	44.5	.....	.....
LUMBER AND TIMBER PRODUCTS.....	18	17	100.0	100.0	972	1,110	100.0	100.0	2,315,008	1,462,791	100.0	100.0	1,086,686	995,396	100.0	100.0
Less than \$5,000.....	5	10	27.8	58.8	6	14	0.6	1.3	12,551	20,800	0.5	1.4	11,011	15,358	0.6	1.5
\$5,000 to \$20,000.....	18	3	44.4	17.6	142	19	4.3	1.7	1,106,582	25,160	4.6	1.7	1,837,746	21,770	5.0	2.2
\$20,000 to \$100,000.....	5	4	27.8	23.5	924	1,077	95.1	97.0	2,105,875	1,416,771	94.9	96.9	1,591,929	958,268	94.4	96.3
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	69	61	100.0	100.0	417	266	100.0	100.0	1,714,510	817,290	100.0	100.0	1,342,251	685,896	100.0	100.0
Less than \$5,000.....	27	33	39.1	54.1	16	34	3.8	12.8	66,589	81,976	3.9	10.0	55,080	69,637	4.1	10.2
\$5,000 to \$20,000.....	28	18	37.7	29.5	62	58	14.9	21.8	269,049	183,254	15.7	22.4	200,762	155,816	15.0	22.7
\$20,000 to \$100,000.....	12	10	17.4	16.4	104	174	24.0	65.4	529,723	2,552,060	30.9	67.5	386,948	2,460,443	28.8	67.1
\$100,000 to \$500,000.....	4	.....	5.8	.....	235	.....	50.4	.....	849,149	49.5	.....	.....	699,481	.....	52.1	.....

¹ Includes the group "\$20,000 to \$100,000."

² Includes the group "\$100,000 to \$500,000."

³ Includes the group "Less than \$20,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

CITY AND VALUE OF PRODUCT.	Number of establish-ments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
PHOENIX.....		110	861	100.0	\$8,140,679	100.0	\$3,061,934
Less than \$5,000.....		20	11	1.3	56,816	0.7	36,605
\$5,000 to \$20,000.....		44	99	11.5	490,522	6.0	304,696
\$20,000 to \$100,000.....		27	176	20.4	1,207,949	14.8	603,988
\$100,000 to \$500,000.....		14	417	48.4	2,907,922	35.7	1,265,039
\$500,000 to \$1,000,000.....		5	158	18.4	3,477,470	42.7	847,946
TUCSON.....	37	1,141	100.0	3,758,314	100.0	1,958,426	100.0
Less than \$5,000.....	5	5	0.4	14,140	0.4	10,449	0.5
\$5,000 to \$20,000.....	16	71	6.2	186,852	5.0	108,053	5.5
\$20,000 to \$100,000.....	11	105	9.2	474,901	12.6	228,037	11.7
\$100,000 and over.....	5	960	84.1	3,080,421	82.0	1,610,387	82.2

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TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Cen-	SUS-	YEAR	NUMBER OF ESTABLISHMENTS OWNED BY—	AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.							
					In establishments owned by—			Percent of total.			Of establishments owned by—			Percent of total.				
					Total.	Individ-	Corpo-	All	Individ-	Corpo-	All	Individ-	Corpo-	All	Individ-	Corpo-	All	
Individ-	Corpo-	All	others.	Individ-	Corpo-	All	others.	Individ-	Corpo-	All	Individ-	Corpo-	All	Individ-	Corpo-	All		
All industries.....	1919	227	161	92	8,528	618	7,660	250	7.2	80.8	2.9	\$120,769,112	\$3,554,146	\$115,651,302	\$1,563,664	2.9	95.8	1.3
	1914	144	122	56	6,898	371	6,299	228	5.4	91.3	3.3	61,089,510	1,194,444	61,912,538	980,528	1.9	96.6	1.5
	1900	141	120	50	6,441	306	1,5,747	388	4.8	89.2	6.0	50,256,694	1,055,203	1,48,305,075	895,816	2.1	96.1	1.8
Automobile repairing.....	1919	42	15	24	231	102	74	55	44.2	32.0	23.8	1,013,243	406,222	291,424	255,597	46.0	28.8	25.2
	1914	1	1	1	20	20	.....	100.0	.....	.....	.....	32,691	2,32,691	.....	.....	100.0	.....	.....
Bread and other bakery products.....	1919	50	.....	12	200	176	.....	33	81.2	.....	15.8	1,839,447	1,358,212	.....	481,235	73.8	.....	26.2
	1914	34	2	10	148	110	.....	38	74.3	.....	25.7	662,691	498,728	.....	163,963	75.3	.....	24.7
Flour-mill and gristmill products.....	1919	1	10	1	72	.....	472	.....	.....	100.0	.....	2,392,089	.....	4,392,089	.....	100.0	.....	.....
	1914	1	6	1	38	.....	438	.....	.....	100.0	.....	1,064,996	.....	1,004,996	.....	100.0	.....	.....
Ice, manufactured.....	1919	5	18	8	272	9	247	16	3.3	90.8	5.9	1,410,148	51,030	1,267,916	91,202	3.6	89.9	6.5
	1914	2	21	4	203	.....	165	38	.....	81.3	18.7	807,278	.....	702,135	105,143	.....	87.0	13.0
Lumber and timber products.....	1919	7	6	5	972	15	895	62	1.5	92.1	6.4	2,315,008	43,947	2,148,132	122,929	1.9	92.8	5.3
	1914	9	5	3	1,110	25	1,078	7	2.3	97.1	0.6	1,462,791	36,730	1,417,331	8,730	2.5	96.9	0.6
Printing and publishing, newspapers and periodicals.....	1919	34	23	12	447	61	347	9	14.6	83.2	2.2	1,714,510	230,544	1,408,943	75,023	13.4	82.2	4.4
	1914	32	21	8	266	46	204	16	17.3	76.7	6.0	817,290	136,191	643,864	37,235	16.7	78.8	4.6
Total for cities.....	1919	69	54	24	2,002	251	1,606	55	12.5	84.7	2.7	11,896,993	1,510,392	9,955,303	422,298	12.8	83.7	3.5
	1914	47	35	22	1,022	170	749	103	16.6	73.3	10.1	3,936,992	614,011	2,814,916	508,065	15.6	71.5	12.9
PHOENIX.....	1919	53	39	18	801	181	644	36	21.0	74.8	4.2	8,140,679	1,223,740	6,605,616	311,323	15.0	81.1	3.8
	1914	32	25	18	446	105	252	89	23.5	56.5	20.0	2,530,174	452,647	1,623,809	455,718	17.9	64.2	17.9
TUCSON.....	1919	16	15	6	1,141	70	1,052	19	6.1	92.2	1.7	3,756,314	295,652	3,349,087	110,975	7.9	89.2	3.9
	1914	15	10	4	376	65	497	14	11.3	86.3	2.4	1,406,818	161,364	1,191,107	54,347	11.5	84.7	3.9

¹ Includes cooperative establishments.² Includes the groups "Corporations" and "All others."³ Includes the group "Corporations."⁴ Includes the groups "Individuals" and "All others."⁵ Includes the group "Individuals."

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

Cen-	Agg-	Citi-	Cen-	Citi-	CITIES HAVING A POPULATION OF 10,000 OR OVER.						THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.			
					Total.		10,000 to 25,000.		25,000 to 100,000.		Number or amount.		Per cent of aggregate.	
					Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.
Number of places.....	1919	.....	.....	.....	2	.....	1	.....	1	.....	.....	.....	.....	.....
	1914	.....	.....	.....	2	.....	2	.....	2	.....	.....	.....	.....	.....
Population ¹	1920	334,162	49,345	14.8	20,292	8.1	29,053	8.7	284,817	85.2	2,530,174	206,474	180,027	180,027
	1915	239,053	32,579	13.6	32,579	13.6	.....	.....	.....	.....	1,623,809	1,623,809	.....	.....
Number of establishments.....	1919	480	147	30.6	37	7.7	110	22.9	333	69.4	.....	.....	.....	.....
	1914	322	104	32.3	104	32.3	.....	.....	.....	.....	218	218	219	219
Average number of wage earners.....	1919	8,528	2,002	23.5	1,141	13.4	801	10.1	6,526	76.5	.....	.....	.....	.....
	1914	6,898	1,022	14.8	1,022	14.8	.....	.....	5,876	85.2	5,876	5,876	5,582	86.7
Value of products.....	1919	\$120,769,112	\$11,896,993	9.9	\$3,756,314	3.1	\$8,140,679	6.8	\$108,872,119	90.1	.....	.....	.....	.....
	1914	64,089,510	3,936,992	6.1	3,936,992	6.1	.....	.....	60,152,518	93.9	46,752,932	46,752,932	46,752,932	46,752,932
Value added by manufacture.....	1919	28,123,675	5,020,360	17.9	1,058,426	7.0	3,061,934	10.9	23,103,315	82.1	.....	.....	.....	.....
	1914	24,806,472	1,930,577	7.8	1,930,577	7.8	.....	.....	22,875,895	92.2	22,875,895	22,875,895	22,875,895	22,875,895
	1909	16,686,444	1,370,224	8.2	1,370,224	8.2	.....	.....	15,286,230	91.8	15,286,230	15,286,230	15,286,230	15,286,230

¹ Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

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TABLE 16.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total.....	1,619	767	445	103,958	54,697	39,140	100.0	100.0	100.0
Owned.....									
Steam ¹	265	229	209	70,111	45,177	35,626	76.1	82.6	91.0
Engines.....	195	190	174	77,138	44,312	34,212	74.2	81.0	87.4
Turbines.....	172	(2)	(2)	37,538	(2)	(2)	36.1	.....	.....
Internal-combustion engines.....	23	(2)	(2)	39,600	(2)	(2)	38.1	.....	.....
Water.....	68	37	31	1,773	795	1,285	1.7	1.5	3.3
Water wheels and turbines.....	2	2	1	200	70	129	0.2	0.1	0.3
Water motors.....	1	2	4	160	70	129	0.2	0.1	0.3
Rented.....	1,354	538	236	24,847	9,520	3,514	23.9	17.4	9.0
Electric.....	1,354	538	236	24,847	8,918	3,314	23.9	16.3	8.5
Other.....					602	200	.....	1.1	0.5
Electric.....	2,095	1,016	496	44,003	23,118	15,100	100.0	100.0	100.0
Rented.....	1,354	538	236	24,847	8,918	3,314	55.3	38.6	21.9
Generated by establishments reporting.....	741	478	260	20,056	14,200	11,786	44.7	61.4	78.1

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

² Not reported separately.

TABLE 17.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	1919.	159	44,976	143,567	2,091,573	1,570
	1914.	5,002	41,341	206,697	1,324,588	(1)
Per cent of increase ²		-90.8	8.8	-40.2	58.0	(1)
Bread and other bakery products.....			343	315	2,104	355
Butter.....			190	.....	4,987	74
Cars and general shop construction and repairs by steam-railroad companies.....		58	14,453	.....	131,767	2
Condensed milk.....			.....	550	22,355	.....
Gas, illuminating and heating.....			550	.....	67,244	.....
Ice, manufactured.....			7,395	.....	72,427	320
Lumber and timber products.....			.....	.....	19,743	.....
Paving materials.....			.....	6,093	6,093	250
Smelting and refining, copper.....		101	19,062	142,257	1,735,118	162
All other industries.....			2,933	445	9,735	401
Total for cities.....			9,420	972	128,066	30
PHOENIX.....			9,180	122	68,433	30
TUCSON.....			240	850	69,633	.....

¹ Included in figures for fuel oils.

² A minus sign (—) denotes decrease.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for two of these industries in Arizona are here presented.

Flour-mill and gristmill products (Table 18).—The leading product, wheat flour, formed 69.2 per cent of the total value of products of the industry in 1919, as compared with 46.4 per cent in 1914, while the value of feed and offal decreased from 43.6 per cent of the total value of products in 1914 to 17.6 per cent in 1919.

TABLE 18.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$2,392,089	\$1,064,996	\$1,316,757
Wheat flour:			
Barrels.....	150,254	79,414	79,526
Value.....	\$1,055,632	\$493,648	\$550,244
Corn meal and corn flour:			
Barrels.....	8,096	2,414	1,002
Value.....	\$75,084	\$8,756	\$9,121
Bran and middlings:			
Tons.....	5,732	3,706	.....
Value.....	\$239,777	\$97,593
Feed and offal:			
Tons.....	8,854	14,878	23,054
Value.....	\$421,596	\$463,999	\$777,392

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Printing and publishing (Table 19).—This table shows the number and aggregate circulation per issue of the different classes of publications for the years 1919, 1914, and 1909. Twelve of the 20 daily newspapers published in 1919 were issued in the evening, with an aggregate circulation of 28,758. The "All other classes" included 3 semiweekly, 1 triweekly, 6 monthly, and 2 semimonthly publications. In 1919, 2 weekly, 1 triweekly, 1 monthly, and 1 semimonthly publications were printed in Spanish. The combined circulation of these was 4,550.

TABLE 19.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	86	76	73	157,934	111,064	79,808
Daily.....	20	16	19	56,995	32,875	33,328
Sunday.....	9	8	9	32,120	18,244	17,400
Weekly.....	45	46	41	33,407	41,420	24,675
All other classes.....	12	6	4	35,403	18,525	4,405

Laundries (Table 20).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 20, however, summarizes the statistics for such laundries in the state of Arizona for 1919 and 1914.

Dyeing and cleaning (Table 21).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manu-

faturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 20.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, ¹ 1914-1910.
	1919	1914	
Number of establishments.....	21	17	
Persons engaged.....	568	403	48.4
Proprietors and firm members.....	13	19	
Salaried employees.....	46	25	
Wage earners (average number).....	539	359	50.1
Primary horsepower.....	685	264	159.5
Capital.....	\$444,981	\$206,812	66.8
Salaries and wages.....	503,443	225,676	123.1
Salaries.....	72,838	30,998	135.0
Wages.....	430,605	194,678	121.2
Paid for contract work.....	1,688	-----	120.5
Rent and taxes.....	22,933	10,402	
Cost of materials.....	253,740	76,779	230.5
Amount received for work done.....	987,438	425,999	131.8

¹ Percentages are omitted where base is less than 100.

TABLE 21.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	15
Persons engaged.....	104
Proprietors and firm members.....	17
Salaried employees.....	8
Wage earners (average number).....	79
Primary horsepower.....	99
Capital.....	\$60,691
Salaries and wages.....	102,185
Salaries.....	7,135
Wages.....	95,047
Rent and taxes.....	10,909
Cost of materials.....	32,978
Amount received for work done.....	200,055

GENERAL TABLES.

Table 22 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state, and for Phoenix and Tucson similar data are shown for all industries combined, for the census years 1919, 1914, and 1909. Certain kindred indus-

tries are combined in some instances for comparison with 1909.

Table 23 presents, for 1919, statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations and statistics for all industries combined for cities of 10,000 inhabitants or more.

TABLE 22.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen-sus year.	Num-ber of estab-lishments.	Wage earners (aver-age num-ber).	Pri-mary horse-power.	Wages.	Cost of mate-rials.	Value of prod-ucts.	Expressed in thousands.					
All industries.....	1919	480	8,528	103,958	\$12,015	\$92,645	\$120,769						
	1914	322	6,898	54,697	6,220	39,283	61,090						
	1909	311	6,441	39,140	5,505	33,800	50,257						
Artificial stone products.....	1919	7	33	56	47	229	299						
	1914	4	7	20	5	9	20						
	1909	14	25	2	11	20	43						
Automobile repairing.....	1919	81	231	422	357	307	1,013						
	1914	3	20	9	20	4	33						
Bread and other bakery prod- ucts.....	1919	62	209	158	262	1,258	1,830						
	1914	46	148	38	131	366	663						
	1909	40	112	19	96	274	478						
Brick and terra-cotta products..	1919	13	99	178	102	56	188						
	1914	12	96	300	71	39	176						
Butter.....	1919	6	68	291	86	926	1,148						
	1914	4	37	162	41	454	598						
	1909	7	28	(1)	25	256	325						
Cars and general shop construc- tion and repairs by steam- railroad companies.....	1919	17	2,103	3,405	3,158	1,903	5,398						
	1914	7	1,377	2,401	1,187	922	2,295						
	1909	10	1,089	892	976	1,301	2,394						
Confectionery and ice cream....	1919	19	82	121	89	334	515						
	1914	4	27	16	17	54	89						
Copper, tin, and sheet-iron work..	1919	16	51	110	78	256	437						
	1914	10	30	10	30	78	139						
Flour-mill and gristmill prod- ucts.....	1919	12	72	928	98	1,967	2,392						
	1914	8	38	536	34	850	1,065						
	1909	10	54	784	42	1,129	1,317						
Poundry and machine-shop products. ²	1919	14	97	232	130	115	301						
	1914	11	83	170	72	52	172						
	1909	10	64	136	47	47	120						
Gas, illuminating and heating..	1919	9	63	590	85	350	691						
	1914	9	59	646	41	90	267						
	1909	8	20	153	20	47	137						
Ice, manufactured.....													
	1919	31	272	4,557				\$372	\$612	\$1,410			
	1914	27	203	3,153				188	271	807			
	1909	23	117	2,569				112	144	501			
Lumber and timber products ³													
	1919	26	1,039	3,609				1,246	844	2,670			
	1914	28	1,155	3,126				826	543	1,634			
	1909	23	839	2,053				639	337	1,410			
Marble and stone work.....													
	1919	6	13	200				21	48	111			
	1914	5	11	112				10	10	24			
	1909	4	247	1,300				215	28	335			
Mineral and carbonated waters.....													
	1919	26	51	115				56	155	322			
	1914	16	31	44				22	49	114			
	1909	18	20	(1)				20	38	100			
Printing and publishing.....													
	1919	84	512	512				541	475	2,087			
	1914	74	335	273				308	178	907			
	1909	64	263	221				222	168	784			
Saddlery and harness.....													
	1919	4	24	21				25	88	148			
	1914	3	30	29				27	57	111			
Smelting and refining, copper.....													
	1919	10	3,112	80,263				4,772	78,060	94,184			
	1914	9	2,900	41,993				2,989	34,380	53,438			
	1909	8	3,129	29,042				2,776	29,242	41,050			
All other industries.....													
	1919	37	397	2,200				489	3,993	5,007			
	1914	42	305	1,659				237	377	1,448			
	1909	72	423	1,060				294	569	1,246			
CITY.													
PHOENIX.....													
	1919	110	861	2,844				1,020	5,070	8,141			
	1914	75	446	1,779				418	1,316	2,630			
	1909	57	304	669				212	864	1,467			
TUCSON.....													
	1919	37	1,141	1,656				1,544	1,708	3,756			
	1914	29	570	1,877				476	660	1,107			
	1909	35	555	1,403				512	1,270	2,037			

¹ Figures not available.² Includes "iron and steel, welding."³ Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

MANUFACTURES—ARIZONA.

TABLE 23.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.	
								Maximum month.	Minimum month.					

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

															Dollars.
1	All industries.....	480	10,347	416	453	773	177	8,528	Oc 8,945	Mh 7,911	(3)	(3)	(3)	(3)	101,486,070
2	Artificial stone products.....	7	44	6	3	1	1	33	De 38	Ja 26	33	38			65,190
3	Automobile repairing.....	81	374	95	18	18	14	231	De 269	Fe 4 211	279	279			692,334
4	Awnings, tents, and sails.....	3	13	3	1	1	1	8	My 4 9	Ja 4 7	8	8			27,265
5	Bread and other bakery products.....	62	315	78	3	21	4	209	No 228	Ja 200	218	184	31	3	463,234
6	Brick and terra-cotta products.....	13	113	12	2	2	2	99	Jy 149	Ja 35	128	128			249,261
7	Butter.....	6	86	1	8	4	5	68	Jy 4 77	Ja 58	62	62			388,962
8	Cars and general shop construction and repairs by steam-railroad companies.....	17	2,258	....	75	71	9	2,103	Mh 2,196	Ja 2,023	2,108	2,105	2	1	2,145,759
9	Confectionery and ice cream.....	19	119	23	10	2	2	82	Ja 4 24	Jy 12	97	52	44	1	161,000
10	Confectionery.....	6	30	10	1	1	1	19	Ja 4 19	Jy 12	24	7	16	1	36,252
11	Ice cream.....	13	89	13	9	2	2	63	No 81	Fe 52	73	45	28		124,748
12	Copper, tin, and sheet-iron work.....	16	76	19	2	3	1	51	No 56	Fe 48	55	55			187,697
13	Flour-mill and gristmill products.....	12	113	3	22	11	5	72	Jy 87	Ja 64	73	73			3,200,015
14	Foundry and machine-shop products.....	10	109	6	9	2	2	92	Ja 99	My 84	92	92			353,240
15	Gas, illuminating and heating.....	9	122	....	19	27	13	63	Fe 66	Oc 60	60	60			1,613,634
16	Ice, manufactured.....	31	360	23	36	26	4	272	Jy 365	Ja 184	226	226			1,928,003
17	Iron and steel, welding.....	4	12	7	7	7	5	5	Oc 4 6	Ja 4 4	6	6			26,616
18	Lumber and timber products.....	18	1,039	17	23	17	10	972	Au 1,205	Mh 508	1,047	1,042	5		2,947,503
19	Lumber, planing-mill products, not including planing mills connected with sawmills.....	8	82	6	6	2	1	67	Au 86	Fe 51	72	72			248,454
20	Marble and stone work.....	6	24	4	7	1	1	13	Oc 4 15	Ja 4 11	14	14			64,850
21	Mineral and carbonated waters.....	26	74	18	2	2	2	51	Au 65	Ja 33	50	47	3		182,818
22	Oil and cake, cottonseed.....	3	118	....	12	7	9	90	Oc 149	My 25	97	97			510,135
23	Pickles and sauces.....	3	22	7	2	1	1	13	De 52	Mh 2	52	17	35		51,408
24	Printing and publishing, job printing.....	15	129	16	5	5	8	95	Ja 4 98	Jy 90	94	77	16	1	225,502
25	Printing and publishing, newspapers and periodicals.....	69	732	52	48	169	46	417	De 452	Ja 397	453	406	26	21	1,070,324
26	Saddlery and harness.....	4	43	2	4	10	3	24	Oc 4 28	Ja 4 22	23	22	1		164,407
27	Slaughtering and meat packing.....	4	70	3	6	3	1	57	De 62	Fe 4 52	62	62			326,382
28	Smelting and refining, copper.....	10	3,620	....	111	364	33	3,112	Ja 3,914	My 2,692	3,111	3,101	10		83,013,194
29	Tobacco, cigars.....	3	21	3	18	18	18	18	Au 4 19	Ja 4 16	18	12	4	2	11,750
30	All other industries *.....	21	250	12	19	11	8	211							1,248,073

* All other industries embrace—
 Automobile bodies and parts..... 2 | Brooms, from broom corn..... 2 | Cheese..... 2
 Bookbinding and blank-book making..... 1 | Cars and general shop construction and repairs by electric-railroad companies..... 2 | Condensed milk..... 1
 Electropolating..... 1

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1	PHOENIX.....	110	1,290	87	93	193	56	861	De My 1,176	Ap 800	1,007	911	94	2	3,517,196
2	TUCSON.....	37	1,278	27	45	41	24	1,141	De My 1,053	Ap 1,157	1,131	1,157	12	14	1,738,389

¹ Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).
² Electric motors operated by rented (or purchased) current.

MANUFACTURES—ARIZONA.

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COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.									Value added by manufacturer.	POWER.						Electric horse-power generated in establishments reporting.
Salaries and wages.			Rent and taxes.		For materials.		Total.	Primary horsepower.			Owned.			Rent-ed. ²	Electric horse-power generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹					
21,459	24,340	356,575	48,006	7,253	350,293	16,814	1,013,243	646,134	422	.....	35	.....	387	.....	2
1,800	1,500	8,922	3,244	217	64,223	170	92,086	28,293	2	.....	.....	.....	2	.....	3
3,500	22,742	262,258	27,168	8,324	1,212,385	45,457	1,830,447	581,605	158	.....	10	.....	148	.....	5
1,200	101,530	450	100,003	9,795	45,848	188,034	132,391	178	.....	.....	178	.....	178	.....	6
24,133	12,376	86,298	2,040	6,762	809,002	16,908	1,147,940	222,032	201	207	74	.....	10	.....	7
220,509	91,526	3,152,502	11,570	15,399	1,547,030	355,857	5,398,489	3,495,602	3,405	2,343	133	370	559	517	8

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars, 1,555,227	Dollars, 1,556,611	Dollars, 12,014,769	Dollars, 153,153	Dollars, 181,156	Dollars, 1,605,291	Dollars, 84,273,872	Dollars, 8,371,505	Dollars, 120,789,112	Dollars, 28,123,675	103,958	37,538	39,600	1,773	200	24,347	20,056	1
4,770	2,431	47,207	1,050	280	227,455	1,494	298,592	69,643	56	26	30	2	
21,459	24,340	356,575	48,006	7,253	350,293	16,814	1,013,243	646,134	422	.....	35	.....	387	.....	3
1,800	1,500	8,922	3,244	217	64,223	170	92,086	28,293	2	.....	.....	.....	2	.....	4
3,500	22,742	262,258	27,168	8,324	1,212,385	45,457	1,830,447	581,605	158	.....	10	.....	148	.....	5
1,200	101,530	450	100,003	9,795	45,848	188,034	132,391	178	.....	.....	178	.....	178	.....	6
24,133	12,376	86,298	2,040	6,762	809,002	16,908	1,147,940	222,032	201	207	74	.....	10	.....	7
220,509	91,526	3,152,502	11,570	15,399	1,547,030	355,857	5,398,489	3,495,602	3,405	2,343	133	370	559	517	8	
15,004	3,000	89,463	.....	13,318	5,296	321,635	11,869	514,546	181,042	121	.....	.....	121	.....	9
1,950	22,109	4,053	837	66,415	1,977	121,085	52,693	16	.....	.....	16	.....	105	.....	10
13,054	3,900	67,354	9,265	4,459	255,220	9,892	393,461	128,349	105	105	105	11	
9,600	2,305	77,814	4,144	1,235	252,879	2,798	430,612	180,935	110	110	110	12	
62,020	22,013	98,435	313	20,408	1,937,200	29,719	2,392,089	425,170	928	235	80	100	453	.....	13	
17,025	2,318	129,031	1,466	4,623	92,443	14,449	278,536	171,644	214	.....	6	.....	208	.....	14
18,492	47,179	84,651	.....	29,542	92,414	257,513	691,169	341,242	590	240	170	50	130	18	15	
87,814	26,848	371,838	5,238	46,015	264,608	347,630	1,410,148	797,610	4,557	2,781	20	589	40	1,177	101	16	
.....	6,830	535	212	7,168	670	22,534	14,666	18	2	16	17	17	
80,583	35,901	1,158,052	3,449	1,000	41,125	590,916	37,406	2,315,008	1,686,686	3,363	3,175	188	246	247	18	
11,911	3,160	88,116	.....	496	2,557	211,899	4,118	364,301	148,284	246	.....	.....	246	.....	19
11,232	20,680	.....	3,333	768	46,230	1,952	111,387	63,205	200	.....	87	.....	113	.....	20
3,386	3,200	55,719	6,303	4,469	150,908	4,182	321,822	166,672	115	2	8	.....	105	.....	21
45,425	16,236	81,490	4,252	42,343	1,080,457	38,381	1,670,367	551,529	855	150	.....	.....	705	.....	22
3,000	8,348	720	415	15,206	306	33,807	18,205	40	3	37	23	23	
10,992	13,247	114,508	10,962	4,409	88,409	3,993	371,885	269,483	91	91	24	24	
143,398	211,330	426,210	32,700	20,557	345,533	26,728	1,714,510	1,342,251	421	.....	101	.....	320	51	25
6,900	1,800	24,953	1,200	4,950	2,422	88,905	803	148,318	60,605	21	.....	.....	21	.....	26
27,400	7,200	72,434	2,220	13,510	1,189,184	10,329	1,408,808	226,295	88	.....	1	.....	87	.....	27
683,844	972,262	4,771,998	98,464	1,022	1,302,241	71,670,919	6,997,987	94,184,312	15,515,408	86,253	27,545	39,089	225	19,394	10,082	28	
.....	10,697	.....	1,070	4,029	10,837	.....	27,370	16,533	770,182	1,215	860	.....	156	.....	29
30,770	29,207	308,153	7,715	10,697	1,507,787	98,183	2,376,152	.....	.....	.....	.....	.....	199	.....	30

Food preparations, peanut butter..... 1 Lime..... 2 Tobacco, smoking..... 1
Hats, straw..... 1 Paving materials..... 1 Trunks and valises..... 1
Jewelry..... 2 Photo-engraving..... 1

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

181,269	235,231	1,019,962	30,647	62,207	102,872	4,810,514	268,231	8,140,679	3,061,934	2,844	632	190	84	4	1,934	5	1
127,065	70,086	1,643,959	7,678	24,204	21,068	1,635,517	162,371	3,756,314	1,058,426	1,656	925	.....	60	.....	671	50	2

^a No figures given for reasons stated under "Explanation of terms."

^b Same number reported for one or more other months.

MINES AND QUARRIES—ARIZONA.

EXPLANATION OF TERMS.

Scope of census and period covered.—The census of mines, quarries, and petroleum or natural-gas wells does not cover enterprises which were idle; that is, in which neither productive nor development work was done during the entire year, or the products of which were valued at less than \$500; or in the case of bituminous coal mining, producing less than 1,000 tons, or, if not productive, in which development work amounting to less than \$5,000 was done. The returns relate to the calendar year 1919. When use is made of the statistics relating to character of ownership, size of enterprises, and similar subjects, it is imperative that due attention be given their limitations, particularly in connection with any attempt to show average wages, cost of production, or profits.

The enterprise.—The term "enterprise" represents one or more mines and quarries, wells or groups of wells, or natural-gas gasoline plants, all within the same state, operated under a common ownership or unified control, or for which only one set of books of account was kept, and for which a single report was secured. It may cover plants at several localities within the same state. If plants under unified control were not all located within the same state, separate reports were secured in order that statistics for the several enterprises thus defined might be included in statistics for the states in which they were located. The enterprise is further defined as being limited to a single industry.

Number of mines, quarries, wells, and plants.—Under these designations is given the number of mines, quarries, wells, and gasoline plants shown by the returns. As a rule each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process, has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported comprises those in operation or in the course of development during the year 1919. For petroleum and natural-gas wells the individual wells were counted and the total number productive December 31, 1919, is reported. The number of natural-gas gasoline plants is the total number reported in operation during the year.

Classification by industries.—The enterprises reported have been grouped by industries according to the kind of products.

Selected industries.—The detailed table gives the principal facts separately for the leading industries of the state.

Influence of increased prices.—In comparing figures for cost of supplies and materials and value of products with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years.

Persons engaged in the industry.—The number of persons engaged in each industry, by occupation, sex, and, in the case of wage earners, also by age, was reported for a single representative day. In addition to the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively.

Prevailing hours of labor.—This inquiry called merely for the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another were disregarded, and also where a few wage earners might have hours differing from the majority. All the wage earners of each enterprise are therefore counted in the class within which the enterprise falls.

Capital.—The instructions on the schedule relating to capital were as follows: "The answer should show the total amount of capital, owned and borrowed, invested by the operator in the enterprise on the last day of the business year reported. Do not include securities and loans representing investments in other enterprises." The reports received in respect to capital, however, have in so many cases been defective that the data compiled only indicate very general conditions.

Expenses.—The expenses reported in the census of 1919 include salaries and wages; the cost of supplies, materials, and fuels, including the freight on these; cost of power purchased; the cost of contract work; royalties and rents paid; and taxes paid or assessed. The census of 1909 reported in addition to the items of expenses covered by the present census all other items of expense incident to that year's business, except interest on indebtedness, dividends, and allowances for depreciation.

Supplies and materials, fuel, and power.—Statistics as to supplies and materials, fuel, and power, relate to the cost of these used during the year which may be more or less than the amount purchased during the year. The term "supplies and materials" covers mine, mill, quarry, and well supplies, and mineral purchased for treatment, resale, or distribution.

Royalties and rents.—The amounts given under this head represent the payment to fee holders or the value of share of product credited to fee holders for mineral output from leased land, and also rents paid for plants, equipment, and privileges or easements.

Taxes.—The taxes include Federal capital stock; corporation income, and excess profits tax; and also state, county, and local taxes. The data compiled in respect to Federal taxes are very defective as many mining corporations are engaged in other business and have sources of income other than from mining and do not pay taxes on mining separately.

Expenditures for development work.—In the statistics for producing enterprises that part of the expenses for salaries, wages, contract work, supplies and materials, fuel, and power credited to development work is shown as expenditures for development work. For nonproducing enterprises the total of these expenses is given as expenditure for development work.

Quantity of products.—In so far as the statistics on quantities of mineral products in 1919 are available for the states, they will be found in the reports of the United States Geological Survey.

Value of products.—The amounts given under this heading represent the selling value at point of production or f. o. b. at point of shipment, or such other value as may represent the net value or amount received for the 1919 product under the terms by which it was disposed of, and also includes the value at point of production of products used by the operating company.

Cost of mining and profits.—The data do not show entire cost of mining and well operations, and can not be used for the calculation of profits. No account was taken of depreciation or interest; rent of offices and buildings other than those for mines, quarries, and wells; insurance, selling, and other sundry expenses.

Lands controlled.—The inquiry on land tenure was confined to land pertaining to the operations covered by the report. In many of these, however, land held in reserve for future development and for other purposes not pertaining to mining was included and also a large number of more or less unsatisfactory estimates.

Power used.—The figures on power represent the rated capacity of the engines, motors, etc., and not the amount in actual daily use.

Fuel.—Statistics of fuel are shown only for anthracite and bituminous coal, coke, wood, oil, and gas. As only the principal varieties of fuel are shown, no comparison can be made with the total cost.

STATISTICS FOR THE STATE.

Arizona, which ranks fifth among the states in size (land area 113,810 square miles) and forty-sixth in population (384,162 in 1920), ranked twelfth in value of mineral products for 1919. The state ranked sixteenth in the total number of persons engaged in the mining industries and in the average number of wage earners employed.

The gross amount received for products by the operators of all mines and quarries in Arizona in 1919 was \$88,478,111, which includes a duplication of \$1,528,056, representing the value of copper ores sold by some producers and resold or used after treatment by others. Thus, the net value of products was \$86,950,055, which was an increase of 164.7 per cent over the corresponding figures, \$32,847,260, for 1909. The amount given as value of products includes \$752,152, which was received for mineral by-products, for custom milling, power sold, and miscellaneous services performed for other enterprises. The value of products reported for the precious and base metal mining industries in 1919 includes the net amounts received for ore concentrates, cement copper, and bullion, by mine and mill operators, or the estimated equivalent of sales value when the products were further treated and not sold, and does not represent the value of the metals produced or recoverable from these materials by smelting and refining. The preceding census of mines and quarries included statistics on smelters operated in connection with copper mines in Arizona and, therefore, the value of products and also other items relating to the copper industry in this state, reported for 1919 and 1909, are not entirely comparable.

The progress of mining in Arizona, during the census period 1909–1919, is shown in Table 1. It is better gauged by increases in number of enterprises, persons engaged in the industries, and average number of wage earners than by the large increases in the principal expenses and in the value of products which are largely due to general price increases.

The mining industries reported for 1919, ranked according to value of products, were those engaged in producing copper ores, gold and silver ores, asbestos, limestone, granite, lead and zinc ores, sandstone, gypsum, manganese ore, and gold from placer mines.

Mineral by-products were reported as follows: Manganese ore from a silver mine, silica from a limestone quarry, and rare metals (tungsten) from a copper mine.

The mining industries for which statistics can be shown without disclosure of individual operations are

ranked by value of products in Table 2, which also shows that in the less important industries different rank is determined by the per cent distribution of the average number of wage earners in each industry.

Copper is the leading mining industry in Arizona and in 1919, with a net value of products amounting to \$82,689,085, it represented 95.1 per cent of the net value of all mineral products in the state. Furthermore, Arizona ranks first among the states in the production of copper. The only other mineral industry of importance was gold and silver mining (lode mines) for which products valued at \$3,523,447 were reported. The metalliferous mines are widely distributed throughout the state, but were most important in 1919 in 12 districts, in Cochise, Gila, Greenlee, Pima, Pinal, and Yavapai Counties.

In addition to the operations of the producing mines and quarries, considerable work was done in Arizona on properties which were not productive during the year. Of these there were reported 95 enterprises engaged in developing 96 metalliferous lode mines, 1 of them a molybdenum mine, and the remainder copper, gold, silver, lead, or zinc mines. These enterprises, with a combined capital of over thirty million dollars, employed 798 wage earners and expended \$3,078,718 for development during the year, these figures representing approximately 5 per cent of the aggregate number of wage earners and of the aggregate expenditures reported for all mining operations of the state.

The extent of control of mining enterprises by corporate organizations is brought out by Table 3. Corporations conducted 63.2 per cent of all the mining enterprises in the state in 1919, employed 97.9 per cent of the average number of wage earners, and reported 99.3 per cent of the total value of products.

The relatively large number of small enterprises, as determined by the average number of wage earners employed, is shown in Table 4. Of the total number of mining enterprises in Arizona, 10.3 per cent had no wage earners and 74.1 per cent had fewer than 101 wage earners each, and these enterprises employed only 8.8 per cent of the total number of wage earners. On the other hand, enterprises employing more than 100 wage earners constituted only 15.5 per cent of the total number of enterprises, but employed 91.3 per cent of the total number of wage earners. The copper-mining industry included 87.5 per cent of these larger enterprises.

Table 5 shows that in more than half the mining enterprises employing wage earners the prevailing

MINES AND QUARRIES—ARIZONA.

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hours of labor per week were 54 to 62, and in practically all the other enterprises 44 to 53. The 8-hour day prevailed generally, and the normal hours of labor per week were 56 in a majority of the mines and 48 in most of the remainder.

The statistics for wage earners in Table 6, showing the changes in employment month by month, reflect

conditions prevailing during the census year. The minima shown are probably abnormal, because of adverse metal market conditions and minor labor difficulties in some mining districts.

Table 7 presents for 1919 statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations.

TABLE 1.—COMPARATIVE SUMMARY, PRODUCING ENTERPRISES: 1919 AND 1909.

	MINING INDUSTRIES.		Per cent of in- crease. ¹		MINING INDUSTRIES.		Per cent of in- crease. ¹
	1919	1909			1919	1909	
Number of enterprises.....	155	135	14.8	Capital.....	\$402,419,671	\$119,772,781	236.0
Number of mines and quarries.....	172	251	-31.5	Principal expenses:			
Persons engaged.....	16,831	13,491	24.8	Salaries.....	3,759,320	1,018,180	269.2
Proprietors and firm members, total.....	105	100	5.0	Wages.....	26,193,312	13,502,760	94.0
Number performing manual labor in or about the mines and quarries.....	68	61	103.7	Contract work.....	746,783	238,982	212.5
Salaried employees.....	1,453	553	18.9	Supplies and materials ²	16,160,801	6,029,758	133.2
Wage earners (average number).....	15,268	12,838	251.4	Fuel and power.....	5,377,525	5,603,989	-4.0
Power used (horsepower).....	166,091	47,272		Royalties and rents.....	438,926	8,256	
				Taxes.....	7,752,425	431,820	
				Value of products.....	88,478,111	34,217,651	158.6

¹ A minus sign (—) denotes decrease. Percentages are omitted where base is less than 100.

² Includes cost of ore purchased as material.

TABLE 2.—PRINCIPAL INDUSTRIES, PRODUCING ENTERPRISES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries.....	155	15,268	100.0	\$88,478,111	100.0	Limestone.....	4	45	0.3	\$153,211	0.2
Copper.....	75	14,237	93.2	84,217,141	95.2	Granite.....	3	58	0.4	128,777	0.1
Gold and silver, lode mines.....	51	642	4.2	3,523,447	4.0	Lead and zinc.....	15	101	0.7	127,843	0.1
						All other industries ¹	7	185	1.2	327,692	0.4

¹ Includes enterprises in industries as follows: Asbestos, 2; gold, placer mines, 1; gypsum, 1; manganese, 1; sandstone, 2.

TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enter- prises.	Wage earners.	Value of products.
ALL INDUSTRIES.....	155	15,268	\$88,478,111	\$570,827	100.0	100.0	100.0
Corporation.....	98	14,946	87,877,574	896,710	63.2	97.9	99.3
Individual.....	26	213	355,317	13,666	16.8	1.4	0.4
Firm ¹	31	109	245,220	7,910	20.0	0.7	0.3
COPPER.....	75	14,237	84,217,141	1,122,895	100.0	100.0	100.0
Corporation.....	54	14,077	83,907,000	1,553,833	72.0	98.9	99.6
Individual.....	10	123	240,306	24,040	13.3	0.9	0.3
Firm ¹	11	37	69,739	6,340	14.7	0.3	0.1
GOLD AND SILVER, LODE MINES.....	51	642	3,523,447	69,087	100.0	100.0	100.0
Corporation.....	26	595	3,395,007	130,577	51.0	92.7	96.4
Individual.....	9	21	15,113	1,679	17.6	3.3	0.4
Firm.....	18	26	113,327	7,083	31.4	4.0	3.2
LEAD AND ZINC.....	15	101	127,843	8,523	100.0	100.0	100.0
Corporation.....	7	61	76,793	10,969	46.7	60.4	60.1
Individual ²	8	40	51,060	6,383	53.3	39.6	39.9

¹ Includes 1 other form of organization.

² Includes 2 firms.

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TABLE 4.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.		INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.		Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES.....	155	100.0	15,268	100.0	GOLD AND SILVER, LODE MINES.....	51	100.0	642	100.0
No wage earners.....	16	10.3	135	0.9	No wage earners.....	8	15.7	.....	.....
1 to 5.....	56	36.1	390	2.6	1 to 5.....	23	45.1	46	7.2
6 to 20.....	36	23.2	1,019	4.2	6 to 20.....	14	27.5	136	21.2
21 to 50.....	21	13.5	167	1.1	21 to 50.....	4	7.8	135	21.0
51 to 100.....	2	1.3	4,714	30.9	101 to 500.....	2	3.9	325	50.6
101 to 500.....	15	9.7	3,917	25.7					
501 to 1,000.....	5	3.2	5,296	34.7					
Over 1,000.....	4	2.6			LEAD AND ZINC.....	15	100.0	101	100.0
COPPER.....	75	100.0	14,237	100.0	No wage earners.....	2	13.3	.....	.....
No wage earners.....	4	5.3	.....	.....	1 to 5.....	6	40.0	11	10.9
1 to 5.....	23	30.7	62	0.4	6 to 20.....	7	46.7	90	89.1
6 to 20.....	12	16.0	125	0.9					
21 to 50.....	13	17.3	388	2.7					
51 to 100.....	2	2.7	167	1.2					
101 to 500.....	12	16.0	4,282	30.1					
501 to 1,000.....	5	6.7	3,917	27.5					
Over 1,000.....	4	5.3	5,296	37.2					

TABLE 5.—NUMBER OF PRODUCING ENTERPRISES AND AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
	Enter- prises.	Wage earners.	36 to 43.		44 to 53.		54 to 62.		63 to 71.	
			Enter- prises.	Wage earners.	Enter- prises.	Wage earners.	Enter- prises.	Wage earners.	Enter- prises.	Wage earners.
			1	107	51	6,981	86	8,178	1	2
All industries.....	139	15,268								
Copper.....	71	14,237			32	6,787	39	7,450	.....	.....
Gold and silver, lode mines.....	43	642			5	27	37	613	1	2
Lead and zinc.....	13	101			6	45	7	56	.....	.....
All other industries.....	12	288	1	107	8	122	3	50	.....	.....

¹ Exclusive of 16 enterprises employing no wage earners in industries as follows: Copper, 4; gold and silver, lode mines, 8; lead and zinc, 2; limestone, 2.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES: 1919.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY.	Average number em- ployed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent mini- mum is of maxi- mum.	
		Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.		
All industries.....	16,060	19,702	16,841	14,073	<i>13,513</i>	14,010	14,159	15,253	16,497	16,964	17,320	17,295	17,160	68.6	
Producing enterprises.....		15,293	19,085	16,273	13,358	<i>12,808</i>	13,199	13,290	14,366	15,588	16,036	16,441	16,484	67.2	
Copper.....		14,237	18,079	15,347	12,403	<i>11,810</i>	12,200	12,322	13,337	14,610	14,925	15,243	15,294	65.5	
Gold and silver, lode mines.....		612	607	580	<i>579</i>	531	623	655	710	589	658	739	710	78.3	
Lead and zinc.....		101	152	111	115	<i>127</i>	93	85	89	86	89	84	90	53.9	
Granite.....		58	98	96	112	<i>112</i>	80	28	26	26	26	28	28	36	
Limestone.....		45	78	55	51	<i>32</i>	42	36	41	42	47	44	45	23.2	
All other industries.....		185	51	85	95	<i>116</i>	151	154	170	235	291	303	317	252	
Nonproducing enterprises.....		703	637	<i>608</i>	715	705	811	879	892	909	928	879	811	842	61.2

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TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919.

	Aggregate.	PRODUCING ENTERPRISES.							Nonproducing enterprises. ²
		Total.	Copper.	Gold and silver, lode mines.	Limestone.	Granite.	Lead and zinc.	All other. ¹	
Number of enterprises.....	250	155	75	51	4	3	15	7	95
Number of mines and quarries.....	268	172	89	51	4	5	16	7	96
Capital.....	\$432,634,662	\$402,419,671	\$387,759,328	\$12,936,527	\$108,810	\$62,400	\$1,011,764	\$540,842	\$30,214,991
Principal expenses:									
Salaries and wages—									
Officers.....	\$522,566	\$463,263	\$418,654	\$33,159		\$3,000	\$6,950	\$1,500	\$59,333
Superintendents and managers.....	\$1,262,241	\$1,094,179	\$989,648	\$62,452	\$6,000		\$22,091	\$13,088	\$168,062
Technical employees.....	\$923,657	\$908,383	\$881,282	\$21,741				\$5,360	\$15,274
Clerks, etc.....	\$1,324,473	\$1,298,504	\$1,249,707	\$33,701	\$2,200		\$2,398	\$5,318	\$30,069
Wage earners.....	\$27,420,985	\$26,193,312	\$24,355,574	\$984,828	\$41,941	\$75,894	\$114,651	\$120,424	\$1,227,073
Supplies and materials.....	\$15,758,176	\$14,632,835	\$13,454,473	\$1,018,012	\$16,090	\$14,624	\$89,344	\$40,202	\$1,125,341
Cost of ore purchased.....	\$1,523,050	\$1,523,050							
Fuel.....	\$4,293,533	\$4,132,257	\$4,084,605	\$64,001	\$1,152	\$9,284	\$10,896	\$12,229	\$161,276
Power.....	\$1,340,232	\$1,245,268	\$1,161,070	\$74,388	\$7,310	\$1,900			\$94,964
Royalties and rents.....	\$440,621	\$438,926	\$383,213	\$50,207		\$2,480	\$2,472	\$464	\$1,695
Taxes.....	\$7,779,826	\$7,752,425	\$7,668,314	\$175,095	\$122	\$177	\$3,156	\$5,561	\$27,401
Contract work.....	\$966,603	\$746,783	\$292,123	\$366,813	\$70,357		\$17,490		\$210,820
Expenditures for development (included in the above items).....	\$10,312,108	\$7,233,300	\$6,398,004	\$659,105	\$47,580		\$101,006	\$32,605	\$3,078,718
Value of products.....	\$88,478,111	\$88,478,111	\$84,217,141	\$3,523,447	\$153,211	\$128,777	\$127,843	\$327,692	
Persons engaged in industry.....	17,783	16,831	15,634	754	48	61	129	205	955
Proprietors and firm members (total).....	110	105	37	50	1		13	4	2
Number performing manual labor.....	71	68	22	38			8		3
Salaried officers.....	134	94	76	11		3	3		40
Superintendents and managers.....	364	300	264	21	1		8	6	64
Technical employees.....	406	393	383	7				3	13
Clerks, etc.....	703	671	637	23	1		4	6	32
Wage earners (average number).....	16,066	15,208	14,237	642	45	58	101	185	798
Wage earners by occupation (Dec. 15):									
Above ground (total).....	7,653	7,231	6,702	198	28	82	34	187	422
Below ground (total).....	10,564	9,801	9,028	544			127	102	763
Foremen, shift bosses, etc.									
Above ground.....	286	261	215	34	2	4	2	4	25
Below ground.....	379	330	207	22			9	2	49
Engineers, hoistmen, electricians, mechanics, etc.									
Above ground.....	2,430	2,251	2,158	51	2	10	12	18	188
Below ground.....	582	542	514	27			1		40
Miners, quarrymen, and drillmen, including their helpers.....									
Above ground.....	909	880	806	24	16	18	3	13	29
Below ground.....	3,948	3,532	3,151	204			45	72	416
Timbermen, truckmen, and men engaged in hauling, teaming, etc.									
Above ground.....	258	219	201	8		10	25	8	39
Below ground.....	2,603	2,550	2,434	92					44
Muckers, loaders, laborers, and others not classified.....									
Above ground.....	2,234	2,093	1,864	41	8	40	7	133	141
Below ground.....	3,052	2,838	2,632	139			47	20	214
Wage earners employed in mills and beneficiating plants.....									
Above ground.....	1,527	1,527	1,458	40			10	19	
Number of females included in wage earners reported above.....									9
Above ground.....	17	8	3	5					
Mineral land operated.....acres.....	106,932	70,431	50,136	10,175	688	232	4,575	4,625	36,501
Land controlled, total.....acres.....	124,500	87,759	67,414	10,175	688	282	4,575	4,625	36,840
Mineral land owned.....	91,694	56,062	41,500	7,928	688	83	2,383	4,380	34,732
Mineral land leased.....	15,238	13,469	8,636	2,247		149	2,192	245	1,769
Timber and other lands owned and leased.....	17,667	17,328	17,278			50			339
Power used: Aggregate horsepower.....	175,370	166,001	158,614	5,107	255	417	684	1,064	9,279
Prime movers (horsepower, total).....	144,036	135,529	133,762	2,762	55	252	634	1,064	6,107
Steam engines—									
Number.....	277	262	233	17		3	2	7	15
Horsepower.....	53,800	52,034	50,778	1,601		40	65	150	1,166
Steam turbines—									
Number.....	21	21	21						
Horsepower.....	73,037	73,037	73,037						
Internal-combustion engines—									
Number.....	297	166	64	61	2	6	18	15	131
Horsepower.....	17,799	12,858	9,947	1,161	55	212	569	914	4,941
Purchased power (horsepower, total).....	30,734	27,562	24,852	2,345	200	165			3,172
Electric motors operated by purchased current—									
Number.....	690	632	528	98	3	3			
Horsepower.....	29,719	26,547	23,837	2,345	200	165			
Other equipment operated by purchased power—									
Horsepower.....	1,015	1,015	1,015						
Electric motors run by current generated by enterprise using:									
Number.....	1,165	1,165	1,139	5				11	
Horsepower.....	77,718	77,545	77,126	32				387	173
Fuel used:									
Coal, bituminous.....tons, 2,000 pounds.....	85,230	84,938	83,429	297					
Coke.....tons, 2,000 pounds.....	174	174	174						
Wood.....cords.....	2,551	1,602	20	1,608		36		38	
Fuel oils.....barrels.....	1,301,290	1,279,173	1,258,708	10,687	230	6,096	85	3,361	22,117
Gasoline and other volatile oils.....barrels.....	13,735	6,706	2,473	2,763	17	251	982	220	7,029

¹ Includes enterprises as follows: Asbestos, 2; gold, placer mines, 1; gypsum, 1; manganese, 1; sandstone, 2.² Includes enterprises as follows: Gold, silver, copper, lead, or zinc, 94; molybdenum, 1.